



P2730P1sequencelisting.txt
Sequence Listing

<110> Ashkenazi, Avi J.
Baker, Kevin P.
Botstein, David
Desnoyers, Luc
Eaton, Dan L.
Ferrara, Napoleone
Fong, Sherman
Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, Audrey
Godowski, Paul J.
Grimaldi, J. Christopher
Gurney, Austin L.
Kljavin, Ivar J.
Napier, Mary A.
Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Watanabe, Colin K.
Williams, P. Mickey
Wood, William I.
Zhang, Zemin

<120> Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

<130> P2730P1C2

<150> 60/049787
<151> 1997-06-16

<150> 60/062250
<151> 1997-10-17

<150> 60/065186
<151> 1997-11-12

<150> 60/065311
<151> 1997-11-13

<150> 60/066770
<151> 1997-11-24

<150> 60/075945
<151> 1998-02-25

<150> 60/078910
<151> 1998-03-20

<150> 60/083322
<151> 1998-04-28

<150> 60/084600
<151> 1998-05-07

<150> 60/087106
<151> 1998-05-28

<150> 60/087607
<151> 1998-06-02

<150> 60/087609
<151> 1998-06-02

P2730P1sequencelisting.txt

<150> 60/087759
<151> 1998-06-02

<150> 60/087827
<151> 1998-06-03

<150> 60/088021
<151> 1998-06-04

<150> 60/088025
<151> 1998-06-04

<150> 60/088026
<151> 1998-06-04

<150> 60/088028
<151> 1998-06-04

<150> 60/088029
<151> 1998-06-04

<150> 60/088030
<151> 1998-06-04

<150> 60/088033
<151> 1998-06-04

<150> 60/088326
<151> 1998-06-04

<150> 60/088167
<151> 1998-06-05

<150> 60/088202
<151> 1998-06-05

<150> 60/088212
<151> 1998-06-05

<150> 60/088217
<151> 1998-06-05

<150> 60/088655
<151> 1998-06-09

<150> 60/088734
<151> 1998-06-10

<150> 60/088738
<151> 1998-06-10

<150> 60/088742
<151> 1998-06-10

<150> 60/088810
<151> 1998-06-10

<150> 60/088824
<151> 1998-06-10

<150> 60/088826
<151> 1998-06-10

<150> 60/088858
<151> 1998-06-11

<150> 60/088861
<151> 1998-06-11

P2730P1sequencelisting.txt

<150> 60/088876
<151> 1998-06-11

<150> 60/089105
<151> 1998-06-12

<150> 60/089440
<151> 1998-06-16

<150> 60/089512
<151> 1998-06-16

<150> 60/089514
<151> 1998-06-16

<150> 60/089532
<151> 1998-06-17

<150> 60/089538
<151> 1998-06-17

<150> 60/089598
<151> 1998-06-17

<150> 60/089599
<151> 1998-06-17

<150> 60/089600
<151> 1998-06-17

<150> 60/089653
<151> 1998-06-17

<150> 60/089801
<151> 1998-06-18

<150> 60/089907
<151> 1998-06-18

<150> 60/089908
<151> 1998-06-18

<150> 60/089947
<151> 1998-06-19

<150> 60/089948
<151> 1998-06-19

<150> 60/089952
<151> 1998-06-19

<150> 60/090246
<151> 1998-06-22

<150> 60/090252
<151> 1998-06-22

<150> 60/090254
<151> 1998-06-22

<150> 60/090349
<151> 1998-06-23

<150> 60/090355
<151> 1998-06-23

<150> 60/090429

P2730P1sequencelisting.txt

<151> 1998-06-24

<150> 60/090431
<151> 1998-06-24

<150> 60/090435
<151> 1998-06-24

<150> 60/090444
<151> 1998-06-24

<150> 60/090445
<151> 1998-06-24

<150> 60/090472
<151> 1998-06-24

<150> 60/090535
<151> 1998-06-24

<150> 60/090540
<151> 1998-06-24

<150> 60/090542
<151> 1998-06-24

<150> 60/090557
<151> 1998-06-24

<150> 60/090676
<151> 1998-06-25

<150> 60/090678
<151> 1998-06-25

<150> 60/090690
<151> 1998-06-25

<150> 60/090694
<151> 1998-06-25

<150> 60/090695
<151> 1998-06-25

<150> 60/090696
<151> 1998-06-25

<150> 60/090862
<151> 1998-06-26

<150> 60/090863
<151> 1998-06-26

<150> 60/091360
<151> 1998-07-01

<150> 60/091478
<151> 1998-07-02

<150> 60/091544
<151> 1998-07-01

<150> 60/091519
<151> 1998-07-02

<150> 60/091626
<151> 1998-07-02

P2730P1sequencelisting.txt

<150> 60/091633
<151> 1998-07-02

<150> 60/091978
<151> 1998-07-07

<150> 60/091982
<151> 1998-07-07

<150> 60/092182
<151> 1998-07-09

<150> 60/092472
<151> 1998-07-10

<150> 60/091628
<151> 1998-07-02

<150> 60/091646
<151> 1998-07-02

<150> 60/091673
<151> 1998-07-02

<150> 60/093339
<151> 1998-07-20

<150> 60/094651
<151> 1998-07-30

<150> 60/095282
<151> 1998-08-04

<150> 60/095285
<151> 1998-08-04

<150> 60/095302
<151> 1998-08-04

<150> 60/095318
<151> 1998-08-04

<150> 60/095321
<151> 1998-08-04

<150> 60/095301
<151> 1998-08-04

<150> 60/095325
<151> 1998-08-04

<150> 60/095916
<151> 1998-08-10

<150> 60/095929
<151> 1998-08-10

<150> 60/096012
<151> 1998-08-10

<150> 60/096143
<151> 1998-08-11

<150> 60/096146
<151> 1998-08-11

<150> 60/096329
<151> 1998-08-12

P2730P1sequencelisting.txt

<150> 60/096757
<151> 1998-08-17

<150> 60/096766
<151> 1998-08-17

<150> 60/096768
<151> 1998-08-17

<150> 60/096773
<151> 1998-08-17

<150> 60/096791
<151> 1998-08-17

<150> 60/096867
<151> 1998-08-17

<150> 60/096891
<151> 1998-08-17

<150> 60/096894
<151> 1998-08-17

<150> 60/096895
<151> 1998-08-17

<150> 60/096897
<151> 1998-08-17

<150> 60/096949
<151> 1998-08-18

<150> 60/096950
<151> 1998-08-18

<150> 60/096959
<151> 1998-08-18

<150> 60/096960
<151> 1998-08-18

<150> 60/097022
<151> 1998-08-18

<150> 60/097141
<151> 1998-08-19

<150> 60/097218
<151> 1998-08-20

<150> 60/097661
<151> 1998-08-24

<150> 60/097952
<151> 1998-08-26

<150> 60/097954
<151> 1998-08-26

<150> 60/097955
<151> 1998-08-26

<150> 60/098014
<151> 1998-08-26

<150> 60/097971

P2730P1sequencelisting.txt

<151> 1998-08-26

<150> 60/097974
<151> 1998-08-26

<150> 60/097978
<151> 1998-08-26

<150> 60/097986
<151> 1998-08-26

<150> 60/097979
<151> 1998-08-26

<150> 60/098525
<151> 1998-08-31

<150> 60/100634
<151> 1998-09-16

<150> 60/100858
<151> 1998-09-17

<150> 60/113296
<151> 1998-12-22

<150> 60/123957
<151> 1999-03-12

<150> 60/141037
<151> 1999-06-23

<150> 60/143048
<151> 1999-07-07

<150> 60/144758
<151> 1999-07-20

<150> 60/145698
<151> 1999-07-26

<150> 60/146222
<151> 1999-07-28

<150> 60/149396
<151> 1999-08-17

<150> 60/158663
<151> 1999-10-08

<150> 60/213637
<151> 2000-06-23

<150> 60/230978
<151> 2000-09-07

<150> 08/743698
<151> 1996-11-06

<150> 08/876698
<151> 1997-06-16

<150> 08/965056
<151> 1997-11-05

<150> 09/105413
<151> 1998-06-26

P2730P1sequencelisting.txt

<150> 09/168978
<151> 1998-10-07

<150> 09/187368
<151> 1998-11-06

<150> 09/202054
<151> 1998-12-07

<150> 09/218517
<151> 1998-12-22

<150> 09/254311
<151> 1999-03-03

<150> 09/254460
<151> 1999-03-09

<150> 09/267213
<151> 1999-03-12

<150> 09/284291
<151> 1999-04-12

<150> 09/380137
<151> 1999-08-25

<150> 09/380138
<151> 1998-08-25

<150> 09/380139
<151> 1999-08-25

<150> 09/403296
<151> 1999-10-18

<150> 09/423844
<151> 1999-11-12

<150> 09/664610
<151> 2000-09-18

<150> 09/665350
<151> 2000-09-18

<150> 09/709238
<151> 2000-11-08

<150> 09/808689
<151> 2001-03-14

<150> 09/854816
<151> 2001-05-15

<150> 09/866028
<151> 2001-05-25

<150> 09/866034
<151> 2001-05-25

<150> 09/872035
<151> 2001-06-01

<150> 09/882636
<151> 2001-06-14

<150> 09/941,992
<151> 2001-08-28

P2730P1sequencelisting.txt

<150> PCT/US97/20069
<151> 1997-11-05

<150> PCT/US98/19330
<151> 1998-09-16

<150> PCT/US98/19437
<151> 1998-09-17

<150> PCT/US98/21141
<151> 1998-10-07

<150> PCT/US98/25108
<151> 1998-12-01

<150> PCT/US99/00106
<151> 1999-01-05

<150> PCT/US99/05028
<151> 1999-03-08

<150> PCT/US99/12252
<151> 1999-06-02

<150> PCT/US99/21090
<151> 1999-09-15

<150> PCT/US99/21547
<151> 1999-09-15

<150> PCT/US99/28313
<151> 1999-11-30

<150> PCT/US99/28301
<151> 1999-12-01

<150> PCT/US99/28634
<151> 1999-12-01

<150> PCT/US99/30095
<151> 1999-12-16

<150> PCT/US99/30911
<151> 1999-12-20

<150> PCT/US00/00219
<151> 2000-01-05

<150> PCT/US00/00376
<151> 2000-01-06

<150> PCT/US00/03565
<151> 2000-02-11

<150> PCT/US00/04341
<151> 2000-02-18

<150> PCT/US00/04414
<151> 2000-02-22

<150> PCT/US00/04914
<151> 2000-02-24

<150> PCT/US00/05004
<151> 2000-02-24

<150> PCT/US00/05841

P2730P1sequencelisting.txt

<151> 2000-03-02
 <150> PCT/US00/06319
 <151> 2000-03-10
 <150> PCT/US00/06884
 <151> 2000-03-15
 <150> PCT/US00/07377
 <151> 2000-03-20
 <150> PCT/US00/08439
 <151> 2000-03-30
 <150> PCT/US00/13358
 <151> 2000-05-15
 <150> PCT/US00/13705
 <151> 2000-05-17
 <150> PCT/US00/14042
 <151> 2000-05-22
 <150> PCT/US00/14941
 <151> 2000-05-30
 <150> PCT/US00/15264
 <151> 2000-06-02
 <150> PCT/US00/20710
 <151> 2000-07-28
 <150> PCT/US00/22031
 <151> 2000-08-11
 <150> PCT/US00/23522
 <151> 2000-08-23
 <150> PCT/US00/23328
 <151> 2000-08-24
 <150> PCT/US00/30952
 <151> 2000-11-08
 <150> PCT/US00/32678
 <151> 2000-12-01
 <150> PCT/US01/06520
 <151> 2001-02-28
 <150> PCT/US01/17800
 <151> 2001-06-01
 <150> PCT/US01/19692
 <151> 2001-06-20
 <150> PCT/US01/21066
 <151> 2001-06-29
 <150> PCT/US01/21735
 <151> 2001-07-09
 <160> 532
 <210> 1
 <211> 1943
 <212> DNA
 <213> Homo sapiens

P2730P1sequencelisting.txt

```

<400> 1
cggacgcgtg ggtgcgaggc gaaggtgacc ggggaccgag catttcagat 50
ctgctcggtg gacctggtgc accaccacca tgttggtgc aaggctggtg 100
tgtctccgga cactaccttc tagggttttc caccagctt tcaccaaggc 150
ctccccgtt gtgaagaatt ccatcacgaa gaatcaatgg ctgttaacac 200
ctagcaggga atatgccacc aaaacaagaa ttgggatccg gcgtgggaga 250
actggccaag aactcaaaga ggcagcattg gaaccatcga tggaaaaaat 300
atttaaaatt gatcagatgg gaagatggtt tgttgctgga ggggctgctg 350
ttggtcttgg agcattgtgc tactatggct tgggactgtc taatgagatt 400
ggagctattg aaaaggctgt aatttggcct cagtatgtca aggatagaat 450
tcattccacc tatatgtact tagcaggagg tattggttta acagctttgt 500
ctgccatagc aatcagcaga acgcctgttc tcatgaactt catgatgaga 550
ggctcttggg tgacaattgg tgtgacctt gcagccatgg ttggagctgg 600
aatgctggtg cgatcaatac catatgacca gagcccaggc ccaaagcatc 650
ttgcttggtt gctacattct ggtgtgatgg gtgcagtggg ggctcctctg 700
acaatattag ggggtcctct tctcatcaga gctgcatggg acacagctgg 750
cattgtggga ggcctctcca ctgtggccat gtgtgcgccc agtgaaaagt 800
ttctgaacat ggggtgcacc ctgggagtgg gcctgggtct cgtctttgtg 850
tcctcattgg gatctatgtt tcttcacct accaccgtgg ctggtgccac 900
tctttactca gtggcaatgt acggtggatt agttcttttc agcatgttcc 950
ttctgtatga taccagaaa gtaatcaagc gtgcagaagt atcaccaatg 1000
tatggagttc aaaaatatga tcccattaac tcgatgctga gtatctacat 1050
ggatacatta aatatattta tgcgagttgc aactatgctg gcaactggag 1100
gcaacagaaa gaaatgaagt gactcagctt ctggcttctc tgctacatca 1150
aatatcttgt ttaatggggc agatatgcat taaatagttt gtacaagcag 1200
ctttcgttga agtttagaag ataagaaaca tgtcatcata tttaaagt 1250
ccggtaatgt gatgcctcag gtctgccttt ttttctggag aataaatgca 1300
gtaatcctct ccaaataag cacacacatt ttcaattctc atgtttgagt 1350
gattttaaaa tgttttggtg aatgtgaaaa ctaaagttt tgtcatgaga 1400
atgtaagtct ttttctact ttaaaattta gtaggttcac tgagtaacta 1450
aaatttagca aacctgtgtt tgcataattt tttggagtgc agaattattg 1500
aattaatgtc ataagtgatt tggagctttg gtaaaggagc cagagagaag 1550
gagtcacctg cagtctttt ttttttaaa tacttagaac ttagcacttg 1600
tgttattgat tagtgaggag ccagtaagaa acatctgggt atttggaac 1650

```

P2730P1sequencelisting.txt

aagtggcatc tggtacattc atttgctgaa cttaacaaaa ctgttcaccc 1700
 tgaaacaggc acaggtgatg cattctcctg ctgttgcttc tcagtgtctt 1750
 ctttccaata tagatgtggt catgtttgac ttgtacagaa tggtaatcat 1800
 acagagaatc cttgatggaa ttatatatgt gtgttttact tttgaatgtt 1850
 acaaaaggaa ataactttta aactattctc aagagaaaat attcaaagca 1900
 tgaaatatgt tgctttttcc agaatacaaa cagtatactc atg 1943

<210> 2
 <211> 345
 <212> PRT
 <213> Homo sapiens

<400> 2
 Met Leu Ala Ala Arg Leu Val Cys Leu Arg Thr Leu Pro Ser Arg
 1 5 10 15
 Val Phe His Pro Ala Phe Thr Lys Ala Ser Pro Val Val Lys Asn
 20 25 30
 Ser Ile Thr Lys Asn Gln Trp Leu Leu Thr Pro Ser Arg Glu Tyr
 35 40 45
 Ala Thr Lys Thr Arg Ile Gly Ile Arg Arg Gly Arg Thr Gly Gln
 50 55 60
 Glu Leu Lys Glu Ala Ala Leu Glu Pro Ser Met Glu Lys Ile Phe
 65 70 75
 Lys Ile Asp Gln Met Gly Arg Trp Phe Val Ala Gly Gly Ala Ala
 80 85 90
 Val Gly Leu Gly Ala Leu Cys Tyr Tyr Gly Leu Gly Leu Ser Asn
 95 100 105
 Glu Ile Gly Ala Ile Glu Lys Ala Val Ile Trp Pro Gln Tyr Val
 110 115 120
 Lys Asp Arg Ile His Ser Thr Tyr Met Tyr Leu Ala Gly Ser Ile
 125 130 135
 Gly Leu Thr Ala Leu Ser Ala Ile Ala Ile Ser Arg Thr Pro Val
 140 145 150
 Leu Met Asn Phe Met Met Arg Gly Ser Trp Val Thr Ile Gly Val
 155 160 165
 Thr Phe Ala Ala Met Val Gly Ala Gly Met Leu Val Arg Ser Ile
 170 175 180
 Pro Tyr Asp Gln Ser Pro Gly Pro Lys His Leu Ala Trp Leu Leu
 185 190 195
 His Ser Gly Val Met Gly Ala Val Val Ala Pro Leu Thr Ile Leu
 200 205 210
 Gly Gly Pro Leu Leu Ile Arg Ala Ala Trp Tyr Thr Ala Gly Ile
 215 220 225
 Val Gly Gly Leu Ser Thr Val Ala Met Cys Ala Pro Ser Glu Lys
 230 235 240
 Phe Leu Asn Met Gly Ala Pro Leu Gly Val Gly Leu Gly Leu Val
 245 250 255

P2730P1sequencelisting.txt

Phe	Val	Ser	Ser	Leu	Gly	Ser	Met	Phe	Leu	Pro	Pro	Thr	Thr	Val
				260					265					270
Ala	Gly	Ala	Thr	Leu	Tyr	Ser	Val	Ala	Met	Tyr	Gly	Gly	Leu	Val
				275					280					285
Leu	Phe	Ser	Met	Phe	Leu	Leu	Tyr	Asp	Thr	Gln	Lys	Val	Ile	Lys
				290					295					300
Arg	Ala	Glu	Val	Ser	Pro	Met	Tyr	Gly	Val	Gln	Lys	Tyr	Asp	Pro
				305					310					315
Ile	Asn	Ser	Met	Leu	Ser	Ile	Tyr	Met	Asp	Thr	Leu	Asn	Ile	Phe
				320					325					330
Met	Arg	Val	Ala	Thr	Met	Leu	Ala	Thr	Gly	Gly	Asn	Arg	Lys	Lys
				335					340					345

<210> 3
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 3
 tgtaaaacga cggccagtta aatagacctg caattattaa tct 43

<210> 4
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 4
 caggaaacag ctatgaccac ctgcacacct gcaaattccat t 41

<210> 5
 <211> 3033
 <212> DNA
 <213> Homo sapiens

<400> 5
 gaaggctgcc tcgctggtcc gaattcggtg ggcggcagtc cgcccgtctc 50
 cgccttctgc atcgcggtct cggcggttc cacctagaca cctaacagtc 100
 gcggagccgg ccgctcgtg aggggggtcgg cacggggagt cgggcggtct 150
 tgtgcatctt ggctacctgt gggtcgaaga tgtcggacat cggagactgg 200
 ttcaggagca tcccggcgat cacgcgctat tggttcgccg ccaccgtcgc 250
 cgtgcccttg gtcggcaaac tcggcctcat cagcccggcc tacctcttcc 300
 tctggcccga agccttcctt tatcgcttcc agatttgag gccaatcact 350
 gccacctttt atttcctgt ggggtccagga actggatttc tttatttggt 400
 caatttatat ttcttatatc agtattctac gcgacttgaa acaggagctt 450
 ttgatgggag gccagcagac tatttattca tgctcctctt taactggatt 500
 tgcacgtga ttactggctt agcaatggat atgcagttgc tgatgattcc 550

P2730P1sequence1isting.txt

tctgatcatg tcagtacttt atgtctgggc ccagctgaac agagacatga 600
 ttgtatcatt ttggtttgga acacgattta aggcctgcta tttaccctgg 650
 gttatccttg gattcaacta tatcatcgga ggctcggtaa tcaatgagct 700
 tattggaaat ctggttggac atctttatct tttcctaatag ttcagatacc 750
 caatggactt gggaggaaga aattttctat ccacacctca gtttttgtac 800
 cgctggctgc ccagtaggag aggaggagta tcaggatttg gtgtgcccc 850
 tgctagcatg aggcgagctg ctgatcagaa tggcgagggc gggagacaca 900
 actggggcca gggctttcga cttggagacc agtgaagggg cggcctcggg 950
 cagccgctcc tctcaagcca catttcctcc cagtgtctggg tgcacttaac 1000
 aactgcgttc tggctaacac tgttggacct gaccacact gaatgtagtc 1050
 tttcagtacg agacaaagt tcttaaattcc cgaagaaaaa tataagtgtt 1100
 ccacaagttt cacgattctc attcaagtcc ttactgtctg gaagaacaaa 1150
 taccaactgt gcaaattgca aaactgacta ctttttttgg tgtcttctct 1200
 tctccccttt ccgtctgaat aatggggttt agcgggtcct aatctgtctg 1250
 cattgagctg gggctgggtc accaaaccct tcccaaagg accttatctc 1300
 tttcttgac acatgcctct ctcccacttt tcccaacccc cacatttgca 1350
 actagaaaaa gttgcccata aaattgtctt gcccttgaca ggttctgtta 1400
 tttattgact tttgccaagg ctggtcacaa caatcatatt cacgttattt 1450
 tccccctttg gtggcagaac tgttaccat agggggagaa gacagccacg 1500
 gatgaagcgt ttctcagctt ttggaattgc ttcgactgac atccgttggt 1550
 aaccgtttgc cactcttcag atatttttta taaaaaaagt accactgagt 1600
 tcatgagggc cacagattgg ttattaatga gatacgaggg ttggtgtctg 1650
 gtgtttgttt cctgagctaa gtgatcaaga ctgtagtgga gttgcagcta 1700
 acatgggtta ggtttaaacc atgggggatg caccctttg cgtttcatat 1750
 gtagccctac tggctttgtg tagctggagt agttgggttg ctttgtgtta 1800
 ggaggatcca gatcatgttg gctacagga gatgctctct ttgagaggtc 1850
 ctgggcattg attcccattt caatctcatt ctggatatgt gttcattgag 1900
 taaaggagga gagacctca tacgctatct aaatgtcact tttttgccta 1950
 tccccggttt tttggtcatg tttcaattaa ttgtgaggaa ggcgcagctc 2000
 ctctctgcac gtagatcatt ttttaaagct aatgtaagca catctaaggg 2050
 aataacatga tttaagggtt aaatggcttt agaatacttt gggtttgagg 2100
 gtgtgttatt ttgagtcatg aatgtacaag ctctgtgaat cagaccagct 2150
 taaataacca cacctttttt tcgtaggttg gcttttccta tcagagcttg 2200
 gctcataacc aaataaagt ttttgaaggc catggctttt cacacagtta 2250

P2730P1sequencelisting.txt

```

ttttatttta tgacgttatc tgaaagcaga ctgtaggag cagtattgag 2300
tggctgtcac actttgaggc aactaaaaag gcttcaaacg ttttgatcag 2350
tttcttttca ggaacattg tgctctaaca gtatgactat tctttcccc 2400
actcttaaac agtgtgatgt gtgttatcct aggaaatgag agttggcaaa 2450
caacttctca ttttgaatag agtttgtgtg tacttctcca tatttaattt 2500
atatgataaa ataggtgggg agagtctgaa ccttaactgt catgttttgt 2550
tgttcatctg tggccacaat aaagtttact tgtaaaattt tagaggccat 2600
tactccaatt atgttgcacg tacactcatt gtacaggcgt ggagactcat 2650
tgtatgtata agaatatattc tgacagtgag tgacccggag tctctggtgt 2700
accctcttac cagtcagctg cctgcgagca gtcatttttt cctaaagggt 2750
tacaagtatt tagaactttt cagttcaggg caaatgttc atgaagttat 2800
tcctcttaaa catggttagg aagctgatga cgttattgat tttgtctgga 2850
ttatgtttct ggaataattt taccaaaaaca agctatttga gttttgactt 2900
gacaaggcaa aacatgacag tggattctct ttacaaatgg aaaaaaaaaa 2950
tccttatttt gtataaagga cttccctttt tgtaaaactaa tcctttttat 3000
tggtaaaaat tgtaaatata aatgtgcaac ttg 3033

```

<210> 6
 <211> 251
 <212> PRT
 <213> Homo sapiens

```

<400> 6
Met Ser Asp Ile Gly Asp Trp Phe Arg Ser Ile Pro Ala Ile Thr
  1           5           10           15
Arg Tyr Trp Phe Ala Ala Thr Val Ala Val Pro Leu Val Gly Lys
           20           25           30
Leu Gly Leu Ile Ser Pro Ala Tyr Leu Phe Leu Trp Pro Glu Ala
           35           40           45
Phe Leu Tyr Arg Phe Gln Ile Trp Arg Pro Ile Thr Ala Thr Phe
           50           55           60
Tyr Phe Pro Val Gly Pro Gly Thr Gly Phe Leu Tyr Leu Val Asn
           65           70           75
Leu Tyr Phe Leu Tyr Gln Tyr Ser Thr Arg Leu Glu Thr Gly Ala
           80           85           90
Phe Asp Gly Arg Pro Ala Asp Tyr Leu Phe Met Leu Leu Phe Asn
           95          100          105
Trp Ile Cys Ile Val Ile Thr Gly Leu Ala Met Asp Met Gln Leu
          110          115          120
Leu Met Ile Pro Leu Ile Met Ser Val Leu Tyr Val Trp Ala Gln
          125          130          135
Leu Asn Arg Asp Met Ile Val Ser Phe Trp Phe Gly Thr Arg Phe
          140          145          150

```

P2730P1sequencelisting.txt

Lys	Ala	Cys	Tyr	Leu	Pro	Trp	Val	Ile	Leu	Gly	Phe	Asn	Tyr	Ile
				155					160					165
Ile	Gly	Gly	Ser	Val	Ile	Asn	Glu	Leu	Ile	Gly	Asn	Leu	Val	Gly
				170					175					180
His	Leu	Tyr	Phe	Phe	Leu	Met	Phe	Arg	Tyr	Pro	Met	Asp	Leu	Gly
				185					190					195
Gly	Arg	Asn	Phe	Leu	Ser	Thr	Pro	Gln	Phe	Leu	Tyr	Arg	Trp	Leu
				200					205					210
Pro	Ser	Arg	Arg	Gly	Gly	Val	Ser	Gly	Phe	Gly	Val	Pro	Pro	Ala
				215					220					225
Ser	Met	Arg	Arg	Ala	Ala	Asp	Gln	Asn	Gly	Gly	Gly	Gly	Arg	His
				230					235					240
Asn	Trp	Gly	Gln	Gly	Phe	Arg	Leu	Gly	Asp	Gln				
				245					250					

<210> 7
 <211> 1373
 <212> DNA
 <213> Homo sapiens

<400> 7
 ggggccgcgg tctagggcgg ctacgtgtgt tgccatagcg accattttgc 50
 attaactggt tggtagcttc taccctgggg gctgagcgac tgcgggccag 100
 ctcttcccct actccctctc ggctccttgt ggcccaaagg cctaaccggg 150
 gtccggcggt ctggcctagg gatcttcccc gttgcccctt tggggcggga 200
 tggctgcgga agaagaagac gaggtggagt gggtagtgga gagcatcgcg 250
 gggttcctgc gagggccaga ctgggtccatc cccatcttgg actttgtgga 300
 acagaaatgt gaagttaact gcaaaggagg gcatgtgata actccaggaa 350
 gccagagcc ggtgattttg gtggcctgtg tcccccttgt ttttgatgat 400
 gaagaagaaa gcaaattgac ctatacagag attcatcagg aatacaaaga 450
 actagttaga aagctgttag aaggttacct caaagaaatt ggaattaatg 500
 aagatcaatt tcaagaagca tgcacttctc ctcttgcaaa gaccataca 550
 tcacaggcca ttttgcaacc tgtgttggca gcagaagatt ttactatctt 600
 taaagcaatg atgggtccaga aaaacattga aatgcagctg caagccattc 650
 gaataattca agagagaaat ggtgtattac ctgactgctt aaccgatggc 700
 tctgatgtgg tcagtgaacct tgaacacgaa gagatgaaaa tcctgagggg 750
 agttcttaga aaatcaaaag aggaatatga ccaggaagaa gaaaggaaga 800
 ggaaaaaaca gttatcagag gctaaaacag aagagcccac agtgcattcc 850
 agtgaagctg caataatgaa taattcccaa ggggatggtg aacattttgc 900
 acaccacccc tcagaagtta aaatgcattt tgctaatacag tcaatagaac 950
 ctttggaag aaaagtggaa aggtctgaaa cttcctccct cccacaaaaa 1000

P2730P1sequencelisting.txt

ggcctgaaga ttcttggtt agagcatgcg agcattgaag gaccaatagc 1050
aaacttatca gtacttggaa cagaagaact tcggcaacga gaacactatc 1100
tcaagcagaa gagagataag ttgatgtcca tgagaaagga tatgaggact 1150
aaacagatac aaaatatgga gcagaaagga aaaccactg gggaggtaga 1200
ggaaatgaca gagaaaccag aaatgacagc agaggagaag caaacattac 1250
taaagaggag attgcttgca gagaaactca aagaagaagt tattaataag 1300
taataattaa gaacaattta acaaaatgga agttcaaatt gtcttaaaaa 1350
taaattattt agtccttaca ctg 1373

<210> 8

<211> 367

<212> PRT

<213> Homo sapiens

<400> 8

Met	Ala	Ala	Glu	Glu	Glu	Asp	Glu	Val	Glu	Trp	Val	Val	Glu	Ser	1	5	10	15
Ile	Ala	Gly	Phe	Leu	Arg	Gly	Pro	Asp	Trp	Ser	Ile	Pro	Ile	Leu	20	25	30	
Asp	Phe	Val	Glu	Gln	Lys	Cys	Glu	Val	Asn	Cys	Lys	Gly	Gly	His	35	40	45	
Val	Ile	Thr	Pro	Gly	Ser	Pro	Glu	Pro	Val	Ile	Leu	Val	Ala	Cys	50	55	60	
Val	Pro	Leu	Val	Phe	Asp	Asp	Glu	Glu	Glu	Ser	Lys	Leu	Thr	Tyr	65	70	75	
Thr	Glu	Ile	His	Gln	Glu	Tyr	Lys	Glu	Leu	Val	Glu	Lys	Leu	Leu	80	85	90	
Glu	Gly	Tyr	Leu	Lys	Glu	Ile	Gly	Ile	Asn	Glu	Asp	Gln	Phe	Gln	95	100	105	
Glu	Ala	Cys	Thr	Ser	Pro	Leu	Ala	Lys	Thr	His	Thr	Ser	Gln	Ala	110	115	120	
Ile	Leu	Gln	Pro	Val	Leu	Ala	Ala	Glu	Asp	Phe	Thr	Ile	Phe	Lys	125	130	135	
Ala	Met	Met	Val	Gln	Lys	Asn	Ile	Glu	Met	Gln	Leu	Gln	Ala	Ile	140	145	150	
Arg	Ile	Ile	Gln	Glu	Arg	Asn	Gly	Val	Leu	Pro	Asp	Cys	Leu	Thr	155	160	165	
Asp	Gly	Ser	Asp	Val	Val	Ser	Asp	Leu	Glu	His	Glu	Glu	Met	Lys	170	175	180	
Ile	Leu	Arg	Glu	Val	Leu	Arg	Lys	Ser	Lys	Glu	Glu	Tyr	Asp	Gln	185	190	195	
Glu	Glu	Glu	Arg	Lys	Arg	Lys	Lys	Gln	Leu	Ser	Glu	Ala	Lys	Thr	200	205	210	
Glu	Glu	Pro	Thr	Val	His	Ser	Ser	Glu	Ala	Ala	Ile	Met	Asn	Asn	215	220	225	
Ser	Gln	Gly	Asp	Gly	Glu	His	Phe	Ala	His	Pro	Pro	Ser	Glu	Val				

P2730P1sequencelisting.txt

230		235	240
Lys Met His Phe	Ala Asn Gln Ser Ile	Glu Pro Leu Gly Arg	Lys
245		250	255
Val Glu Arg Ser	Glu Thr Ser Ser Leu	Pro Gln Lys Gly Leu	Lys
260		265	270
Ile Pro Gly Leu	Glu His Ala Ser Ile	Glu Gly Pro Ile Ala	Asn
275		280	285
Leu Ser Val Leu	Gly Thr Glu Glu Leu	Arg Gln Arg Glu His	Tyr
290		295	300
Leu Lys Gln Lys	Arg Asp Lys Leu Met	Ser Met Arg Lys Asp	Met
305		310	315
Arg Thr Lys Gln	Ile Gln Asn Met Glu	Gln Lys Gly Lys Pro	Thr
320		325	330
Gly Glu Val Glu	Glu Met Thr Glu Lys	Pro Glu Met Thr Ala	Glu
335		340	345
Glu Lys Gln Thr	Leu Leu Lys Arg Arg	Leu Leu Ala Glu Lys	Leu
350		355	360
Lys Glu Glu Val	Ile Asn Lys		
365			

<210> 9
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 9
 gggcacagca catgtgaagt ttttgatgat gaagaagaaa gcaaattgac 50
 ctatacagag attcatcagg aatacaaaga actagttgaa aagctgtag 100
 aaggttacct caaagaaatt ggaattaatg aagatcaatt tcaagaagca 150
 tgcacttctc ctcttgcaaa gaccataca tcacaggcca tttttgcaac 200
 ctgtgttggc agcagaagat ttactatct ttaaagcaat gatggtccag 250
 aaaaacattg aaatgcagct gcaagccatt cgaataattc aagagagaaa 300
 tgggtgtatta cctgactgct taaccgatgg ctctgatgtg gtcagtgacc 350
 ttgaacacga agagatgaaa atcctgaggg aagttcttag aaaatcaaaa 400
 gaggaatatg accaggaa 418

<210> 10
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 10
 ttgacctata cagagattca tc 22

<210> 11
 <211> 23
 <212> DNA
 <213> Artificial Sequence

P2730P1sequencelisting.txt

<220>
<223> Synthetic oligonucleotide probe

<400> 11
ctaagaactt ccctcaggat ttt 23

<210> 12
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 12
atgaagatca atttcaagaa gcatgcactt ctctctttgc 40

<210> 13
<211> 2886
<212> DNA
<213> Homo sapiens

<400> 13
gcgtggtttt tggtctgcaa taggcggctt agagggaggg gctttttcgc 50
ctatacctac tgtagcttct ccacgtatgg accctaaagg ctactgctgc 100
tactacgggg ctagacagtt actgtctcag ctctaggatg tgcgttcttc 150
cactagaagc tcttctgagg gaggttaatta aaaaacagtg gaatggaaaa 200
acagtgctgt agtcatcctg taatatgctc cttgtcaaca atgtatacat 250
tcctgctagg tgccatattc attgctttaa gctcaagtcg catcttacta 300
gtgaagtatt ctgccaatga agaaaacaag tatgattatc ttccaactac 350
tgtgaatgtg tgctcagaac tgggtgaagct agttttctgt gtgcttgtgt 400
cattctgtgt tataaagaaa gatcatcaaa gtagaaattt gaaatatgct 450
tcctggaagg aattctctga tttcatgaag tgggtccattc ctgcctttct 500
ttatttctctg gataacttga ttgtcttcta tgtcctgtcc tatcttcaac 550
cagccatggc tggtatcttc tcaaatttta gcattataac aacagctctt 600
ctattcagga tagtgctgaa gaggcgtcta aactggatcc agtgggcttc 650
cctcctgact ttatttttgt ctattgtggc cttgactgcc gggactaaaa 700
ctttacagca caacttggca ggacgtggat ttcatcacga tgcctttttc 750
agcccttcca attcctgcct tcttttcaga agtgagtgtc ccagaaaaga 800
caattgtaca gcaaaggaat ggacttttcc tgaagctaaa tggaacacca 850
cagccagagt tttcagtcac atccgtcttg gcatgggcca tgttcttatt 900
atagtccagt gttttatttc ttcaatggct aatatctata atgaaaagat 950
actgaaggag gggaaccagc tactgaaag catcttcata cagaacagca 1000
aactctatct ctttggcatt ctgtttaatg ggctgactct gggccttcag 1050
aggagtaacc gtgatcagat taagaactgt ggattttttt atggccacag 1100

P2730P1sequence1isting.txt

tgcattttca gtagccctta tttttgtaac tgcattccag ggcctttcag 1150
tggctttcat tctgaagttc ctggataaca tgttccatgt cttgatggcc 1200
caggttacca ctgtcattat cacaacagtg tctgtcctgg tctttgactt 1250
caggccctcc ctggaatttt tcttgggaagc cccatcagtc cttctctcta 1300
tatttattta taatgccagc aagcctcaag ttccggaata cgcacctagg 1350
caagaaagga tccgagatct aagtggcaat ctttgggagc gttccagtgg 1400
ggatggagaa gaactagaaa gacttaccaa acccaagagt gatgagtcag 1450
atgaagatac tttctaactg gtaccacat agtttgcagc tctcttgaac 1500
cttattttca cattttcagt gtttgaata tttatctttt cactttgata 1550
aaccagaaat gtttctaaat cctaatttc tttgcatata tctagctact 1600
ccctaaatgg ttccatccaa ggcttagagt acccaaaggc taagaaattc 1650
taaagaactg atacaggagt aacaatatga agaattcatt aatattctcag 1700
tacttgataa atcagaaagt tatatgtgca gattattttc cttggccttc 1750
aagcttccaa aaaacttgta ataatcatgt tagctatagc ttgtatatac 1800
acatagagat caatttgcca aatattcaca atcatgtagt tctagtttac 1850
atgccaaagt cttccctttt taacattata aaagctaggt tgtctcttga 1900
attttgaggc cctagagata gtcattttgc aagtaaagag caacgggacc 1950
ctttctaaaa acgttggttg aaggacctaa atacctggcc ataccataga 2000
tttgggatga tgtagtctgt gctaaatatt ttgctgaaga agcagtttct 2050
cagacacaac atctcagaat tttaattttt agaaattcat gggaaattgg 2100
atttttgtaa taatcttttg atgttttaaa cattgggttc ctagtcacca 2150
tagttaccac ttgtatttta agtcatttaa acaagccacg gtggggcttt 2200
tttctcctca gtttgaggag aaaaatcttg atgtcattac tcctgaatta 2250
ttacattttg gagaataaga gggcatttta ttttattagt tactaattca 2300
agctgtgact attgtatatc tttccaagag ttgaaatgct ggcttcagaa 2350
tcataccaga ttgtcagtga agctgatgcc taggaacttt taaagggatc 2400
ctttcaaaag gatcacttag caaacacatg ttgactttta actgatgtat 2450
gaatattaat actctaaaaa tagaaagacc agtaatatat aagtcacttt 2500
acagtgttac ttcacactta aaagtgcag gtatttttca tggatttttg 2550
catgcagcca gttaactctc gtagatagag aagtcagggt atagatgata 2600
ttaaaaatta gcaaacaaaa gtgacttgct caggggtcatg cagctgggtg 2650
atgatagaag agtgggcttt aactggcagg cctgtatgtt tacagactac 2700
catactgtaa atatgagctt tatgggtgtca ttctcagaaa cttatacatt 2750
tctgctctcc tttctcctaa gtttcatgca gatgaatata aggtaatata 2800

P2730P1sequencelisting.txt

ctattatata attcatttgt gatatccaca ataatatgac tggcaagaat 2850

tggtggaaat ttgtaattaa aataattatt aaacct 2886

<210> 14

<211> 424

<212> PRT

<213> Homo sapiens

<400> 14

Met	Glu	Lys	Gln	Cys	Cys	Ser	His	Pro	Val	Ile	Cys	Ser	Leu	Ser
1				5					10					15
Thr	Met	Tyr	Thr	Phe	Leu	Leu	Gly	Ala	Ile	Phe	Ile	Ala	Leu	Ser
				20					25					30
Ser	Ser	Arg	Ile	Leu	Leu	Val	Lys	Tyr	Ser	Ala	Asn	Glu	Glu	Asn
				35					40					45
Lys	Tyr	Asp	Tyr	Leu	Pro	Thr	Thr	Val	Asn	Val	Cys	Ser	Glu	Leu
				50					55					60
Val	Lys	Leu	Val	Phe	Cys	Val	Leu	Val	Ser	Phe	Cys	Val	Ile	Lys
				65					70					75
Lys	Asp	His	Gln	Ser	Arg	Asn	Leu	Lys	Tyr	Ala	Ser	Trp	Lys	Glu
				80					85					90
Phe	Ser	Asp	Phe	Met	Lys	Trp	Ser	Ile	Pro	Ala	Phe	Leu	Tyr	Phe
				95					100					105
Leu	Asp	Asn	Leu	Ile	Val	Phe	Tyr	Val	Leu	Ser	Tyr	Leu	Gln	Pro
				110					115					120
Ala	Met	Ala	Val	Ile	Phe	Ser	Asn	Phe	Ser	Ile	Ile	Thr	Thr	Ala
				125					130					135
Leu	Leu	Phe	Arg	Ile	Val	Leu	Lys	Arg	Arg	Leu	Asn	Trp	Ile	Gln
				140					145					150
Trp	Ala	Ser	Leu	Leu	Thr	Leu	Phe	Leu	Ser	Ile	Val	Ala	Leu	Thr
				155					160					165
Ala	Gly	Thr	Lys	Thr	Leu	Gln	His	Asn	Leu	Ala	Gly	Arg	Gly	Phe
				170					175					180
His	His	Asp	Ala	Phe	Phe	Ser	Pro	Ser	Asn	Ser	Cys	Leu	Leu	Phe
				185					190					195
Arg	Ser	Glu	Cys	Pro	Arg	Lys	Asp	Asn	Cys	Thr	Ala	Lys	Glu	Trp
				200					205					210
Thr	Phe	Pro	Glu	Ala	Lys	Trp	Asn	Thr	Thr	Ala	Arg	Val	Phe	Ser
				215					220					225
His	Ile	Arg	Leu	Gly	Met	Gly	His	Val	Leu	Ile	Ile	Val	Gln	Cys
				230					235					240
Phe	Ile	Ser	Ser	Met	Ala	Asn	Ile	Tyr	Asn	Glu	Lys	Ile	Leu	Lys
				245					250					255
Glu	Gly	Asn	Gln	Leu	Thr	Glu	Ser	Ile	Phe	Ile	Gln	Asn	Ser	Lys
				260					265					270
Leu	Tyr	Phe	Phe	Gly	Ile	Leu	Phe	Asn	Gly	Leu	Thr	Leu	Gly	Leu
				275					280					285
Gln	Arg	Ser	Asn	Arg	Asp	Gln	Ile	Lys	Asn	Cys	Gly	Phe	Phe	Tyr

P2730P1sequencelisting.txt

290	295	300
Gly His Ser Ala Phe Ser Val Ala Leu Ile Phe Val Thr Ala Phe	305	315
Gln Gly Leu Ser Val Ala Phe Ile Leu Lys Phe Leu Asp Asn Met	320	330
Phe His Val Leu Met Ala Gln Val Thr Thr Val Ile Ile Thr Thr	335	345
Val Ser Val Leu Val Phe Asp Phe Arg Pro Ser Leu Glu Phe Phe	350	360
Leu Glu Ala Pro Ser Val Leu Leu Ser Ile Phe Ile Tyr Asn Ala	365	375
Ser Lys Pro Gln Val Pro Glu Tyr Ala Pro Arg Gln Glu Arg Ile	380	390
Arg Asp Leu Ser Gly Asn Leu Trp Glu Arg Ser Ser Gly Asp Gly	395	405
Glu Glu Leu Glu Arg Leu Thr Lys Pro Lys Ser Asp Glu Ser Asp	410	420
Glu Asp Thr Phe		

<210> 15
 <211> 755
 <212> DNA
 <213> Homo sapiens

<400> 15
 cgtgcctgcg caatgggtgt cgggtccgct ttttcccaat ccggacgtaa 50
 tcgtgggtttt tgtttctgcaa taggcggcctt agagggagggg gcttttttcgc 100
 ctatacctac tgtagcttct ccacgtatgg accctaaagg ctactgctgc 150
 tactacgggg ctagacagtt actgtctcag ctctaggatg tgcgtttcttc 200
 cactagaagc ttttctgagg gaggttaatta aaaaacagtg gaatggaaaa 250
 acagtgctgt agtcacacctg taatatgctc cttgtcaaca atgtatacat 300
 tcctgctagg tgccatattc attgctttta gctcaagtcg catcttacta 350
 gtgaagtatt ctgccaatga agaaaacaag tatgattatc ttccaactac 400
 tgtgaatgtg tgctcagaac tgggtgaagct agtttttctgt gtgcttgtgt 450
 cattctgtgt tataaagaaa gatcatcaaa gtagaaattt gaaatatgct 500
 tcctggaagg aattctctga tttcatgaag tgggtccattc ctgcctttct 550
 ttatttctctg gataacttga ttgtcttcta tgtcctgtcc tatcttcaac 600
 cagccatggc tggtatcttc tcaaatttta gcattataac aacagctctt 650
 ctattcagga tagtgctgaa gaggcgtcta aactggatcc agtgggcttc 700
 cctcctgact ttatttttgt ctattgtggc cttgactgcc gggactaaaa 750
 cttta 755

<210> 16

P2730P1sequencelisting.txt

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 16
ctatacctac ttagcttct 20

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 17
tcagagaatt ccttccagga 20

<210> 18
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 18
acagtgtgt agtcatcctg taatatgctc cttgtcaaca 40

<210> 19
<211> 2142
<212> DNA
<213> Homo sapiens

<400> 19
cggacgcgtg ggcggacgcg tgggcggacg cgtggggccg gcttggttag 50
cgcgcggcgg ccgtggctaa ggctgtacg aagcgagctt gggaggagca 100
gcggcctgcg gggcagagga gcatcccgtc taccaggtcc caagcggcgt 150
ggcccgcggg tcatggccaa aggagaaggc gccgagagcg gctccgcggc 200
ggggctgcta cccaccagca tcctccaaag cactgaacgc ccggcccagg 250
tgaagaaaga accgaaaaag aagaaacaac agttgtctgt ttgcaacaag 300
ctttgtatg cacttggggg agccccctac caggtgacgg gctgtgccct 350
gggtttcttc cttcagatct acctattgga tgtggctcag gtgggccctt 400
tctctgcctc catcatcctg tttgtgggcc gagcctggga tgccatcaca 450
gacccccctg tgggcctctg catcagcaaa tccccctgga cctgcctggg 500
tcgccttatg ccctggatca tcttctccac gccctggcc gtcattgcct 550
acttctcat ctggttcgtg cccgacttcc cacacggcca gacctattgg 600
tacctgcttt tctattgcct ctttgaaaca atggtcacgt gtttccatgt 650
tccctactcg gctctcacca tgttcatcag caaccgagca gactgagcgg 700
gattctgcca ccgcctatcg gatgactgtg gaagtgtgg gcacagtgt 750

P2730P1sequence1isting.txt

gggcacggcg atccagggac aaatcgtggg ccaagcagac acgccttggt 800
tccaggactt caatagctct acagtagctt cacaaagtgc caaccataca 850
catggcacca cttcacacag ggaaacgcaa aaggcatacc tgctggcagc 900
gggggtcatt gtctgtatct atataatctg tgctgtcatc ctgacccctg 950
gcgtgcggga gcagagagaa ccctatgaag cccagcagtc tgagccaatc 1000
gcctacttcc ggggcctacg gctgggtcatg agccacggcc catacatcaa 1050
acttattact ggcttcctct tcacctcctt ggctttcatg ctggtggagg 1100
ggaactttgt cttgttttgc acctacacct tgggcttcg caatgaattc 1150
cagaatctac tcctggccat catgctctcg gccactttaa ccattcccat 1200
ctggcagtggt ttcttgaccc ggtttggtgcaa gaagacagct gtatatgttg 1250
ggatctcatc agcagtgcca ttctcatct tgggtggcct catggagagt 1300
aacctcatca ttacatatgc ggtagctgtg gcagctggca tcagtgtggc 1350
agctgccttc ttactaccct ggtccatgct gcctgatgtc attgacgact 1400
tccatctgaa gcagccccac ttccatggaa ccgagcccat cttcttctcc 1450
ttctatgtct tcttcaccaa gtttgctctt ggagtgtcac tgggcatttc 1500
taccctcagt ctggactttg cagggtacca gaccctggc tgctcgagc 1550
cggaacgtgt caagtttaca ctgaacatgc tcgtgaccat ggctcccata 1600
gttctcatcc tgctgggcct gctgctcttc aaaatgtacc ccattgatga 1650
ggagaggcgg cggcagaata agaaggcct gcaggcactg agggacgagg 1700
ccagcagctc tggctgtca gaaacagact ccacagagct ggctagcatc 1750
ctctagggcc cgccacgttg cccgaagcca ccatgcagaa ggccacagaa 1800
gggatcagga cctgtctgcc ggcttgcgtga gcagctggac tgcaggtgct 1850
aggaagggaa ctgaagactc aaggaggtgg cccaggacac ttgctgtgct 1900
cactgtgggg ccggctgctc tgtggcctcc tgccctccct ctgcctgcct 1950
gtggggccaa gccctggggc tgccactgtg aatatgcaa ggactgatcg 2000
ggcctagccc ggaacactaa tgtagaaacc ttttttttac agagcctaata 2050
taataactta atgactgtgt acatagcaat gtgtgtgtat gtatatgtct 2100
gtgagctatt aatgttatta attttcataa aagctggaaa gc 2142

<210> 20
<211> 458
<212> PRT
<213> Homo sapiens

<400> 20
Met Trp Leu Arg Trp Ala Leu Ser Leu Pro Pro Ser Ser Cys Leu
1 5 10 15
Trp Ala Glu Pro Gly Met Pro Ser Gln Thr Pro Trp Trp Ala Ser
20 25 30

P2730P1sequencelisting.txt

Ala	Ser	Ala	Asn	Pro	Pro	Gly	Pro	Ala	Trp	Val	Ala	Leu	Cys	Pro
				35					40					45
Gly	Ser	Ser	Ser	Pro	Arg	Pro	Trp	Pro	Ser	Leu	Pro	Thr	Ser	Ser
				50					55					60
Ser	Gly	Ser	Cys	Pro	Thr	Ser	His	Thr	Ala	Arg	Pro	Ile	Gly	Thr
				65					70					75
Cys	Phe	Ser	Ile	Ala	Ser	Leu	Lys	Gln	Trp	Ser	Arg	Val	Ser	Met
				80					85					90
Phe	Pro	Thr	Arg	Leu	Ser	Pro	Cys	Ser	Ser	Ala	Thr	Glu	Gln	Thr
				95					100					105
Glu	Arg	Asp	Ser	Ala	Thr	Ala	Tyr	Arg	Met	Thr	Val	Glu	Val	Leu
				110					115					120
Gly	Thr	Val	Leu	Gly	Thr	Ala	Ile	Gln	Gly	Gln	Ile	Val	Gly	Gln
				125					130					135
Ala	Asp	Thr	Pro	Cys	Phe	Gln	Asp	Phe	Asn	Ser	Ser	Thr	Val	Ala
				140					145					150
Ser	Gln	Ser	Ala	Asn	His	Thr	His	Gly	Thr	Thr	Ser	His	Arg	Glu
				155					160					165
Thr	Gln	Lys	Ala	Tyr	Leu	Leu	Ala	Ala	Gly	Val	Ile	Val	Cys	Ile
				170					175					180
Tyr	Ile	Ile	Cys	Ala	Val	Ile	Leu	Ile	Leu	Gly	Val	Arg	Glu	Gln
				185					190					195
Arg	Glu	Pro	Tyr	Glu	Ala	Gln	Gln	Ser	Glu	Pro	Ile	Ala	Tyr	Phe
				200					205					210
Arg	Gly	Leu	Arg	Leu	Val	Met	Ser	His	Gly	Pro	Tyr	Ile	Lys	Leu
				215					220					225
Ile	Thr	Gly	Phe	Leu	Phe	Thr	Ser	Leu	Ala	Phe	Met	Leu	Val	Glu
				230					235					240
Gly	Asn	Phe	Val	Leu	Phe	Cys	Thr	Tyr	Thr	Leu	Gly	Phe	Arg	Asn
				245					250					255
Glu	Phe	Gln	Asn	Leu	Leu	Leu	Ala	Ile	Met	Leu	Ser	Ala	Thr	Leu
				260					265					270
Thr	Ile	Pro	Ile	Trp	Gln	Trp	Phe	Leu	Thr	Arg	Phe	Gly	Lys	Lys
				275					280					285
Thr	Ala	Val	Tyr	Val	Gly	Ile	Ser	Ser	Ala	Val	Pro	Phe	Leu	Ile
				290					295					300
Leu	Val	Ala	Leu	Met	Glu	Ser	Asn	Leu	Ile	Ile	Thr	Tyr	Ala	Val
				305					310					315
Ala	Val	Ala	Ala	Gly	Ile	Ser	Val	Ala	Ala	Ala	Phe	Leu	Leu	Pro
				320					325					330
Trp	Ser	Met	Leu	Pro	Asp	Val	Ile	Asp	Asp	Phe	His	Leu	Lys	Gln
				335					340					345
Pro	His	Phe	His	Gly	Thr	Glu	Pro	Ile	Phe	Phe	Ser	Phe	Tyr	Val
				350					355					360
Phe	Phe	Thr	Lys	Phe	Ala	Ser	Gly	Val	Ser	Leu	Gly	Ile	Ser	Thr
				365					370					375

P2730P1sequencelisting.txt

Leu	Ser	Leu	Asp	Phe	Ala	Gly	Tyr	Gln	Thr	Arg	Gly	Cys	Ser	Gln
				380					385					390
Pro	Glu	Arg	Val	Lys	Phe	Thr	Leu	Asn	Met	Leu	Val	Thr	Met	Ala
				395					400					405
Pro	Ile	Val	Leu	Ile	Leu	Leu	Gly	Leu	Leu	Leu	Phe	Lys	Met	Tyr
				410					415					420
Pro	Ile	Asp	Glu	Glu	Arg	Arg	Arg	Gln	Asn	Lys	Lys	Ala	Leu	Gln
				425					430					435
Ala	Leu	Arg	Asp	Glu	Ala	Ser	Ser	Ser	Gly	Cys	Ser	Glu	Thr	Asp
				440					445					450
Ser	Thr	Glu	Leu	Ala	Ser	Ile	Leu							
				455										

<210> 21
 <211> 571
 <212> DNA
 <213> Homo sapiens

<400> 21
 gggaaacgca aaaggcatac ctgctggcag cgggggtcat tgtctgtatc 50
 tatataatct gtgctgtcat cctgacccg ggcgtgcggg agcagagaga 100
 accctatgaa gcccagcagt ctgagccaat cgcctacttc cggggcctac 150
 ggctgggtcat gagccacggc ccatacatca aacttattac tggcttcctc 200
 ttcacctcct tggctttcat gctgggtggag gggaactttg tcttgttttg 250
 cacctacacc ttgggcttcc gcaatgaatt ccagaatcta ctctggcca 300
 tcatgtcttc ggccacttta accattccca tctggcagtg gttcttgacc 350
 cggttttggca agaagacagc tgtatatgtt gggatctcat cagcagtgcc 400
 atttctcatc ttggtggccc tcatggagag taacctcatc attacatatg 450
 cggtagctgt ggcagctggc atcagtgtagg cagctgcctt cttactaccc 500
 tgggtccatgc tgcctgatgt cattgacgac ttccatctga agcagcccca 550
 cttccatgga accgagccca t 571

<210> 22
 <211> 1173
 <212> DNA
 <213> Homo sapiens

<400> 22
 ggggcttcgg cgccagcggc cagcgctagt cggctctgga aggatttaca 50
 aaagggtgcag gtatgagcag gtctgaagac taacattttg tgaagttgta 100
 aaacagaaaa cctgttagaa atgtgggtggg ttcagcaagg cctcagtttc 150
 cttccttcag cccttgtaat ttggacatct gctgctttca tattttcata 200
 cattactgca gtaacactcc accatataga cccggcttta ccttatatca 250
 gtgacactgg tacagtagct ccagaaaaat gcttattttg ggcaatgcta 300
 aatattgcgg cagttttatg cattgctacc atttatgttc gttataagca 350

P2730P1sequencelisting.txt

agttcatgct ctgagtcctg aagagaacgt tatcatcaaa ttaaacaagg 400
ctggccttgt acttggaata ctgagttgtt taggactttc tattgtggca 450
aacttcaga aaacaacctt ttttgctgca catgtaagtg gagctgtgct 500
tacctttggt atgggctcat tatatatgtt tgttcagacc atcctttcct 550
accaaagca gcccaaaatc catggcaaac aagtcttctg gatcagactg 600
ttgttggtta tctggtgtgg agtaagtgc cttagcatgc tgacttgctc 650
atcagttttg cacagtggca attttgggac tgatttagaa cagaaactcc 700
attggaaccc cgaggacaaa gggtatgtgc ttcacatgat cactactgca 750
gcagaatggt ctatgtcatt ttccttcttt gggtttttcc tgacttacat 800
tcgtgatttt cagaaaattt ctttacgggt ggaagccaat ttacatggat 850
taaccctcta tgacactgca ccttgcccta ttaacaatga acgaacacgg 900
ctactttcca gagatatttg atgaaaggat aaaatatttc tgtaatgatt 950
atgatttcta gggattgggg aaagggtcac agaagttgct tattcttctc 1000
tgaaattttc aaccacttaa tcaaggctga cagtaacact gatgaatgct 1050
gataatcagg aaacatgaaa gaagccattt gatagattat tctaaaggat 1100
atcatcaaga agactattaa aaacacctat gcctatactt ttttatctca 1150
gaaaataaag tcaaaagact atg 1173

<210> 23
<211> 266
<212> PRT
<213> Homo sapiens

<400> 23
Met Trp Trp Phe Gln Gln Gly Leu Ser Phe Leu Pro Ser Ala Leu
1 5 10 15
Val Ile Trp Thr Ser Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala
20 25 30
Val Thr Leu His His Ile Asp Pro Ala Leu Pro Tyr Ile Ser Asp
35 40 45
Thr Gly Thr Val Ala Pro Glu Lys Cys Leu Phe Gly Ala Met Leu
50 55 60
Asn Ile Ala Ala Val Leu Cys Ile Ala Thr Ile Tyr Val Arg Tyr
65 70 75
Lys Gln Val His Ala Leu Ser Pro Glu Glu Asn Val Ile Ile Lys
80 85 90
Leu Asn Lys Ala Gly Leu Val Leu Gly Ile Leu Ser Cys Leu Gly
95 100 105
Leu Ser Ile Val Ala Asn Phe Gln Lys Thr Thr Leu Phe Ala Ala
110 115 120
His Val Ser Gly Ala Val Leu Thr Phe Gly Met Gly Ser Leu Tyr
125 130 135

P2730P1sequencelisting.txt

Met	Phe	Val	Gln	Thr	Ile	Leu	Ser	Tyr	Gln	Met	Gln	Pro	Lys	Ile
				140					145					150
His	Gly	Lys	Gln	Val	Phe	Trp	Ile	Arg	Leu	Leu	Leu	Val	Ile	Trp
				155					160					165
Cys	Gly	Val	Ser	Ala	Leu	Ser	Met	Leu	Thr	Cys	Ser	Ser	Val	Leu
				170					175					180
His	Ser	Gly	Asn	Phe	Gly	Thr	Asp	Leu	Glu	Gln	Lys	Leu	His	Trp
				185					190					195
Asn	Pro	Glu	Asp	Lys	Gly	Tyr	Val	Leu	His	Met	Ile	Thr	Thr	Ala
				200					205					210
Ala	Glu	Trp	Ser	Met	Ser	Phe	Ser	Phe	Phe	Gly	Phe	Phe	Leu	Thr
				215					220					225
Tyr	Ile	Arg	Asp	Phe	Gln	Lys	Ile	Ser	Leu	Arg	Val	Glu	Ala	Asn
				230					235					240
Leu	His	Gly	Leu	Thr	Leu	Tyr	Asp	Thr	Ala	Pro	Cys	Pro	Ile	Asn
				245					250					255
Asn	Glu	Arg	Thr	Arg	Leu	Leu	Ser	Arg	Asp	Ile				
				260					265					

<210> 24
 <211> 485
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 14, 484
 <223> unknown base

<400> 24
 cggacgcttg ggcngcgcca gcggccagcg ctagtcggtc tggttaagtgc 50
 ctgatgccga gttccgtctc tcgggtcttt tcctggtccc aggcaaagcg 100
 gagcggagat cctcaaacgg cctagtgcct cgcgcttcg gagaaaatca 150
 gcggtctaataa taattcctct ggtttggtga agcagttacc aagaatcttc 200
 aaccctttcc cacaaaagct aattgagtag acgttcctgt tgagtacacg 250
 ttcctgttga ttacaaaag gtgcaggtat gagcaggtct gaagactaac 300
 attttgtaga gttgtaaaac agaaaacctg ttagaaatgt ggtgggtttca 350
 gcaaggcctc agtttccttc cttcagccct tgtaatttgg acatctgctg 400
 ctttcatatt ttcatacatt actgcagtaa cactccacca tatagaccgc 450
 gctttacctt atatcagtga cactggtaca gtanc 485

<210> 25
 <211> 40
 <212> DNA
 <213> Artificial sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 25
 acctgttaga aatgtggtgg tttcagcaag gcctcagttt 40
 Page 28

P2730P1sequencelisting.txt

<210> 26
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 26
 ggagatagct gctatgggtt cttcaggcac aacttaacat gggaag 46

<210> 27
 <211> 1399
 <212> DNA
 <213> Homo sapiens

<400> 27
 cccacgcgtc cgcccgccgc tgcgtcccgg agtgcaagtg agctttctcg 50
 ctgccccgcg ggccgggggtg cggagccgac atgcgccgc ttctcggcct 100
 ccttctggtc ttgcgcggct gcaccttcgc cttgtacttg ctgtcgacgc 150
 gactgccccg cgggcggaga ctgggtcca ccgaggaggc tggaggcagg 200
 tcgctgtggt tccccccga cctggcagag ctgcgggagc tctctgaggt 250
 ccttcgagag taccggaagg agcaccaggc ctacgtgttc ctgctcttct 300
 gcggcgcccta cctctacaaa cagggtttg ccatccccgg ctccagcttc 350
 ctgaatgttt tagctggtgc cttgtttggg ccatggctgg ggcttctgct 400
 gtgctgtgtg ttgacctcgg tgggtgccac atgctgttac ctgctctcca 450
 gtatttttgg caaacagtgt gtggtgtcct actttcctga taaagtggcc 500
 ctgctgcaga gaaaggtgga ggagaacaga aacagcttgt ttttttctt 550
 attgtttttg agacttttcc ccatgacacc aaactgggtc ttgaacctct 600
 cggccccaat tctgaacatt cccatcgtgc agttcttctt ctcagttctt 650
 atcggtttga tcccatataa tttcatctgt gtgcagacag ggtccatcct 700
 gtcaacccta acctctctgg atgctctttt ctctgggac actgtcttta 750
 agctgttggc cattgccatg gtggcattaa ttcctggaac cctcattaaa 800
 aaatttagtc agaaacatct gcaattgaat gaaacaagta ctgctaata 850
 tatacacagt agaaaagaca catgatctgg attttctggt tgccacatcc 900
 ctggactcag ttgcttattt gtgtaatgga tgtggtcctc taaagcccct 950
 cattgttttt gattgccttc tataggtgat gtggacactg tgcataatg 1000
 tgcagtgtct tttcagaaag gacactctgc tcttgaagggt gtattacatc 1050
 aggttttcaa accagccctg gtgtagcaga cactgcaaca gatgcctcct 1100
 agaaaatgct gtttgtggcc gggcgcggtg gctcacgcct gtaatcccag 1150
 cactttggga ggccgaggcc ggtgattcac aaggtcagga gttcaagacc 1200
 agcctggcca agatggtgaa atcctgtctc taataaaaat acaaaaatta 1250

P2730P1sequencelisting.txt

gccaggcgtg gtggcaggca cctgtaatcc cagctactcg ggaggctgag 1300
gcaggagaat tgcttgaacc aagggtggcag aggttgcagt aagccaagat 1350
cacaccactg cactccagcc tgggtgatag agtgagacac tgtcttgac 1399

<210> 28
<211> 264
<212> PRT
<213> Homo sapiens

<400> 28
Met Arg Pro Leu Leu Gly Leu Leu Leu Val Phe Ala Gly Cys Thr
1 5 10 15
Phe Ala Leu Tyr Leu Leu Ser Thr Arg Leu Pro Arg Gly Arg Arg
20 25 30
Leu Gly Ser Thr Glu Glu Ala Gly Gly Arg Ser Leu Trp Phe Pro
35 40 45
Ser Asp Leu Ala Glu Leu Arg Glu Leu Ser Glu Val Leu Arg Glu
50 55 60
Tyr Arg Lys Glu His Gln Ala Tyr Val Phe Leu Leu Phe Cys Gly
65 70 75
Ala Tyr Leu Tyr Lys Gln Gly Phe Ala Ile Pro Gly Ser Ser Phe
80 85 90
Leu Asn Val Leu Ala Gly Ala Leu Phe Gly Pro Trp Leu Gly Leu
95 100 105
Leu Leu Cys Cys Val Leu Thr Ser Val Gly Ala Thr Cys Cys Tyr
110 115 120
Leu Leu Ser Ser Ile Phe Gly Lys Gln Leu Val Val Ser Tyr Phe
125 130 135
Pro Asp Lys Val Ala Leu Leu Gln Arg Lys Val Glu Glu Asn Arg
140 145 150
Asn Ser Leu Phe Phe Phe Leu Leu Phe Leu Arg Leu Phe Pro Met
155 160 165
Thr Pro Asn Trp Phe Leu Asn Leu Ser Ala Pro Ile Leu Asn Ile
170 175 180
Pro Ile Val Gln Phe Phe Phe Ser Val Leu Ile Gly Leu Ile Pro
185 190 195
Tyr Asn Phe Ile Cys Val Gln Thr Gly Ser Ile Leu Ser Thr Leu
200 205 210
Thr Ser Leu Asp Ala Leu Phe Ser Trp Asp Thr Val Phe Lys Leu
215 220 225
Leu Ala Ile Ala Met Val Ala Leu Ile Pro Gly Thr Leu Ile Lys
230 235 240
Lys Phe Ser Gln Lys His Leu Gln Leu Asn Glu Thr Ser Thr Ala
245 250 255
Asn His Ile His Ser Arg Lys Asp Thr
260

<210> 29
<211> 1292

P2730P1sequencelisting.txt

<212> DNA

<213> Homo sapiens

<400> 29

```

ccgaggcggg aggagcccga gggggcgcgga gccccgcatg aatcattgta 50
gtcaatcatt ttccagttct cagccgctca gttgtgatca agggacacgt 100
ggtttccgaa ctgccagctc agaataggaa aataacttgg gatatttatat 150
tggaagacat ggatcttgct gccaacgaga tcagcattta tgacaaactt 200
tcagagactg ttgatttggt gagacagacc ggccatcagt gtggcatgtc 250
agagaaggca attgaaaaat ttatcagaca gctgctggaa aagaatgaac 300
ctcagagacc cccccgcag tatcctctcc ttatagttgt gtataagggt 350
ctcgcaacct tgggattaat cttgctcact gcctactttg tgattcaacc 400
tttcagccca ttagcacctg agccagtgtt ttctggagct cacacctggc 450
gctcactcat ccatcacatt aggctgatgt ccttgcccat tgccaagaag 500
tacatgtcag aaaataaggg agttcctctg catgggggtg atgaagacag 550
accctttcca gactttgacc cctggtggac aaacgactgt gagcagaatg 600
agtcagagcc cattcctgcc aactgcactg gctgtgcca gaaacacctg 650
aaggatgatg tcctggaaga cgccccagg aaatttgaga ggctccatcc 700
actggtgatc aagacgggaa agccccgtgt ggaggaagag attcagcatt 750
ttttgtgcca gtaccctgag gcgacagaag gcttctctga agggtttttc 800
gccaagtggg ggcgtgctt tcctgagcgg tggttcccat ttccttatcc 850
atggaggaga cctctgaaca gatcacaat gttacgtgag ctttttcctg 900
ttttcactca cctgccattt ccaaaagatg cctctttaaa caagtgtctc 950
tttcttcacc cagaacctgt tgtggggagt aagatgcata agatgcctga 1000
cctatttatc attggcagcg gtgaggccat gttgcagctc atccctccct 1050
tccagtgccg aagacattgt cagtctgtgg ccatgccaat agagccaggg 1100
gatatcggct atgtcgacac caccactgg aaggctctacg ttatagccag 1150
aggggtccag cctttggtca tctgcgatgg aaccgctttc tcagaactgt 1200
aggaaataga actgtgcaca ggaacagctt ccagagccga aaaccagggt 1250
gaaaggggaa aaataaaaac aaaaacgatg aaactgcaaa aa 1292

```

<210> 30

<211> 347

<212> PRT

<213> Homo sapiens

<400> 30

```

Met Asp Leu Ala Ala Asn Glu Ile Ser Ile Tyr Asp Lys Leu Ser
 1           5           10          15
Glu Thr Val Asp Leu Val Arg Gln Thr Gly His Gln Cys Gly Met
          20          25          30

```

P2730P1sequencelisting.txt

```

Ser Glu Lys Ala Ile Glu Lys Phe Ile Arg Gln Leu Leu Glu Lys
    35          40          45
Asn Glu Pro Gln Arg Pro Pro Pro Gln Tyr Pro Leu Leu Ile Val
    50          55          60
Val Tyr Lys Val Leu Ala Thr Leu Gly Leu Ile Leu Leu Thr Ala
    65          70          75
Tyr Phe Val Ile Gln Pro Phe Ser Pro Leu Ala Pro Glu Pro Val
    80          85          90
Leu Ser Gly Ala His Thr Trp Arg Ser Leu Ile His His Ile Arg
    95          100         105
Leu Met Ser Leu Pro Ile Ala Lys Lys Tyr Met Ser Glu Asn Lys
   110         115         120
Gly Val Pro Leu His Gly Gly Asp Glu Asp Arg Pro Phe Pro Asp
   125         130         135
Phe Asp Pro Trp Trp Thr Asn Asp Cys Glu Gln Asn Glu Ser Glu
   140         145         150
Pro Ile Pro Ala Asn Cys Thr Gly Cys Ala Gln Lys His Leu Lys
   155         160         165
Val Met Leu Leu Glu Asp Ala Pro Arg Lys Phe Glu Arg Leu His
   170         175         180
Pro Leu Val Ile Lys Thr Gly Lys Pro Leu Leu Glu Glu Glu Ile
   185         190         195
Gln His Phe Leu Cys Gln Tyr Pro Glu Ala Thr Glu Gly Phe Ser
   200         205         210
Glu Gly Phe Phe Ala Lys Trp Trp Arg Cys Phe Pro Glu Arg Trp
   215         220         225
Phe Pro Phe Pro Tyr Pro Trp Arg Arg Pro Leu Asn Arg Ser Gln
   230         235         240
Met Leu Arg Glu Leu Phe Pro Val Phe Thr His Leu Pro Phe Pro
   245         250         255
Lys Asp Ala Ser Leu Asn Lys Cys Ser Phe Leu His Pro Glu Pro
   260         265         270
Val Val Gly Ser Lys Met His Lys Met Pro Asp Leu Phe Ile Ile
   275         280         285
Gly Ser Gly Glu Ala Met Leu Gln Leu Ile Pro Pro Phe Gln Cys
   290         295         300
Arg Arg His Cys Gln Ser Val Ala Met Pro Ile Glu Pro Gly Asp
   305         310         315
Ile Gly Tyr Val Asp Thr Thr His Trp Lys Val Tyr Val Ile Ala
   320         325         330
Arg Gly Val Gln Pro Leu Val Ile Cys Asp Gly Thr Ala Phe Ser
   335         340         345
Glu Leu

```

<210> 31
<211> 478

P2730P1sequencelisting.txt

<212> DNA

<213> Homo sapiens

<400> 31

```
ccacggtgtc cgttcttcgc ccggcggcag ctgtccccga ggcgggagga 50
gccccgagggg cgcgagcccc gcatgaatca ttgtagtcaa tcattttcca 100
gttctcagcc gttcagttgt gatcaaggga cacgtgggtt ccgaactgcc 150
agctcagaat aggaaaataa cttgggattt tatattggaa gacatggatc 200
ttgctgccaa cgagatcagc atttatgaca aactttcaga gactgttgat 250
ttggtgagac agaccggcca tcagtgtggc atgtcagaga aggcaattga 300
aaaatttatc agacagctgc tggaaaagaa tgaacctcag agaccccccc 350
cgcagtatcc tctccttata gttgtgtata aggttctcgc aaccttgga 400
ttaatcttgc tcactgccta ctttgtgatt caacctttca gcccattagc 450
acctgagcca gtgctttgtg gagctcac 478
```

<210> 32

<211> 3531

<212> DNA

<213> Homo sapiens

<400> 32

```
cccacgcgtc cgccccacgcg tccggctgaa cacctcttct ttggagtcag 50
ccactgatga ggcaggggtcc ccacttgcat ctgcagcagc tgcagcagct 100
gcagagcgct gtccttggtt ggtgccactg gtgcgcacgc tgctagaccg 150
tgcctatgag ccgctggggc tgcatggggg actgccctcc ctgccaccca 200
ccaatggcag cccacacctt tttgaagact tccaggcttt ttgtgccaca 250
cccgaatggc gccacttcat cgacaaacag gtacagccaa ccatgtccca 300
gttcgaaatg gacacgtatg ctaagagcca cgaccttatg tcaggtttct 350
ggaatgcctg ctatgacatg cttatgagca gtgggcagcg gcgccagtgg 400
gagcgcgccc agagtcgtcg ggccttccag gagctgggtg tggaacctgc 450
gcagaggcgg gcgcgcctgg aggggctacg ctacacggca gtgctgaagc 500
agcaggcaac gcagcactcc atggccctgc tgcactgggg ggcgctgtgg 550
cgccagctcg ccagccccatg tggggcctgg gcgctgaggg acactcccat 600
cccccgctgg aaactgtcca gcgccgagac atattcacgc atgcgtctga 650
agctggtgcc caaccatcac ttcgacctc acctggaagc cagcgtcttc 700
cgagacaatc tgggtgaggt tcccctgaca cccaccgagg aggcctcact 750
gcctctggca gtgaccaaag aggccaaagt gagcacccca cccgagttgc 800
tgcaggagga ccagctcggc gaggacgagc ttgctgagct ggagaccccg 850
atggaggcag cagaactgga tgagcagcgt gagaagctgg tgctgtcggc 900
cgagtgccag ctggtgacgg tagtggccgt ggtcccaggg ctgctggagg 950
```

P2730P1sequencelisting.txt

tcaccacaca gaatgtatac ttctacgatg gcagcactga gcgcgtggaa 1000
accgaggagg gcatcggcta tgatttccgg cgcccactgg cccagctgcg 1050
tgagggtccac ctgcggcggt tcaacctgcg ccgttcagca cttgagctct 1100
tctttatcga tcaggccaac tacttcctca acttcccatg caagggtgggc 1150
acgaccccag tctcatctcc tagccagact ccgagacccc agcctggccc 1200
catccccacc catacccagg tacggaacca ggtgtactcg tggctcctgc 1250
gcctacggcc cccctctcaa ggctacctaa gcagccgctc cccccaggag 1300
atgctgctg cctcaggcct taccagaaa tgggtacagc gtgagatata 1350
caacttcgag tacttgatgc aactcaacac cattgcgggg cggacctaca 1400
atgacctgtc tcagtaccct gtgttcccct gggctctgca ggactacgtg 1450
tccccaaccc tggacctcag caaccagcc gtcttcggg acctgtctaa 1500
gcccatcgggt gtggtgaacc ccaagcatgc ccagctcgtg agggagaagt 1550
atgaaagctt tgaggacca gcagggacca ttgacaagtt ccactatggc 1600
accactact ccaatgcagc aggcgtgatg cactacctca tccgcgtgga 1650
gcccttcacc tccctgcacg tccagctgca aagtggccgc tttgactgct 1700
ccgaccggca gttccactcg gtggcggcag cctggcaggc acgcctggag 1750
agccctgccg atgtgaagga gtcaccccga gaattcttct actttcctga 1800
cttcctggag aaccagaacg gttttgacct gggctgtctc cagctgacca 1850
acgagaaggt aggcgatgtg gtgctacccc cgtgggcccag ctctcctgag 1900
gacttcaccc agcagcaccg ccaggctctg gagtcggagt atgtgtctgc 1950
acacctacac gagggtgatc acctcatctt tggctacaag cagcgggggc 2000
cagccgccga ggaggccctc aatgtcttct attactgcac ctatgagggg 2050
gctgtagacc tggaccatgt gacagatgag cgggaacgga aggctctgga 2100
gggcattatc agcaactttg ggcagactcc ctgtcagctg ctgaaggagc 2150
cacatccaac tcggctctca gctgaggaag cagcccatcg cttgcacgc 2200
ctggacacta actcacctag catcttccag cacctggacg aactcaaggc 2250
attcttcgca gaggtgactg tgagtgccag tgggctgctg ggcacccaca 2300
gctggttgcc ctatgaccgc aacataagca actacttcag cttcagcaaa 2350
gacccacca tgggcagcca caagacgcag cgactgctga gtggcccgtg 2400
ggtgccaggc agtgggtgtga gtggacaagc actggcagtg gccccggatg 2450
gaaagctgct attcagcggg ggccactggg atggcagcct gcgggtgact 2500
gcactacccc gtggcaagct gttgagccag ctgagctgcc accttgatgt 2550
agtaacctgc cttgactgag acacctgtgg catctacctc atctcaggct 2600
cccgggacac cacgtgcatg gtgtggcggc tcctgcatca ggggtgtctg 2650

P2730P1sequencelisting.txt

tcagtaggcc tggcaccaaa gcctgtgcag gtcctgtatg ggcatggggc 2700
 tgcagtgagc tgtgtggcca tcagcactga acttgacatg gctgtgtctg 2750
 gatctgagga tggaactgtg atcatacaca ctgtacgccg cggacagttt 2800
 gtagcggcac tacggcctct ggggtgccaca ttccctggac ctattttcca 2850
 cctggcattg ggggccgaag gccagattgt ggtacagagc tcagcgtggg 2900
 aacgtcctgg ggcccagggtc acctactcct tgcacctgta ttcagtcaat 2950
 ggggaagtgc gggcttcaact gcccctggca gagcagccta cagccctgac 3000
 ggtgacagag gactttgtgt tgctgggcac cgcccagtgc gccctgcaca 3050
 tcctccaact aaacacactg ctcccggccg cgcctccctt gcccatgaag 3100
 gtggccatcc gcagcgtggc cgtgaccaag gagcgcagcc acgtgctggt 3150
 gggcctggag gatggcaagc tcatcgtggt ggtcgcgggg cagccctctg 3200
 aggtgcgag cagccagttc gcgcggaagc tgtggcggtc ctgcggcgc 3250
 atctcccagg tgcctcggg agagacggaa tacaacccta ctgaggcgcg 3300
 ctgaacctgg ccagtccggc tgctcgggcc ccgccccgg caggcctggc 3350
 ccgggaggcc ccgcccagaa gtcggcgga acaccccggt gtgggcagcc 3400
 cagggggtga gcggggccca ccctgccag ctgagggtt ggcgggcgat 3450
 gttacccct cagggattgg cgggcggaag tcccggcct cgccggctga 3500
 ggggccgccc tgaggccag cactggcgct t 3531

<210> 33
 <211> 1003
 <212> PRT
 <213> Homo sapiens

<400> 33
 Met Ser Gln Phe Glu Met Asp Thr Tyr Ala Lys Ser His Asp Leu
 1 5 10 15
 Met Ser Gly Phe Trp Asn Ala Cys Tyr Asp Met Leu Met Ser Ser
 20 25 30
 Gly Gln Arg Arg Gln Trp Glu Arg Ala Gln Ser Arg Arg Ala Phe
 35 40 45
 Gln Glu Leu Val Leu Glu Pro Ala Gln Arg Arg Ala Arg Leu Glu
 50 55 60
 Gly Leu Arg Tyr Thr Ala Val Leu Lys Gln Gln Ala Thr Gln His
 65 70 75
 Ser Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln Leu Ala
 80 85 90
 Ser Pro Cys Gly Ala Trp Ala Leu Arg Asp Thr Pro Ile Pro Arg
 95 100 105
 Trp Lys Leu Ser Ser Ala Glu Thr Tyr Ser Arg Met Arg Leu Lys
 110 115 120
 Leu Val Pro Asn His His Phe Asp Pro His Leu Glu Ala Ser Ala
 125 130 135
 Page 35

P2730P1sequencelisting.txt

Leu Arg Asp Asn	Leu Gly Glu Val	Pro Leu Thr Pro Thr Glu	Glu
140	145	150	
Ala Ser Leu Pro	Leu Ala Val Thr Lys	Glu Ala Lys Val Ser	Thr
155	160	165	
Pro Pro Glu Leu	Leu Gln Glu Asp Gln	Leu Gly Glu Asp Glu	Leu
170	175	180	
Ala Glu Leu Glu	Thr Pro Met Glu Ala	Ala Glu Leu Asp Glu	Gln
185	190	195	
Arg Glu Lys Leu	Val Leu Ser Ala Glu	Cys Gln Leu Val Thr	Val
200	205	210	
Val Ala Val Val	Pro Gly Leu Leu Glu	Val Thr Thr Gln Asn	Val
215	220	225	
Tyr Phe Tyr Asp	Gly Ser Thr Glu Arg	Val Glu Thr Glu Glu	Gly
230	235	240	
Ile Gly Tyr Asp	Phe Arg Arg Pro Leu	Ala Gln Leu Arg Glu	Val
245	250	255	
His Leu Arg Arg	Phe Asn Leu Arg Arg	Ser Ala Leu Glu Leu	Phe
260	265	270	
Phe Ile Asp Gln	Ala Asn Tyr Phe Leu	Asn Phe Pro Cys Lys	Val
275	280	285	
Gly Thr Thr Pro	Val Ser Ser Pro Ser	Gln Thr Pro Arg Pro	Gln
290	295	300	
Pro Gly Pro Ile	Pro Pro His Thr Gln	Val Arg Asn Gln Val	Tyr
305	310	315	
Ser Trp Leu Leu	Arg Leu Arg Pro Pro	Ser Gln Gly Tyr Leu	Ser
320	325	330	
Ser Arg Ser Pro	Gln Glu Met Leu Arg	Ala Ser Gly Leu Thr	Gln
335	340	345	
Lys Trp Val Gln	Arg Glu Ile Ser Asn	Phe Glu Tyr Leu Met	Gln
350	355	360	
Leu Asn Thr Ile	Ala Gly Arg Thr Tyr	Asn Asp Leu Ser Gln	Tyr
365	370	375	
Pro Val Phe Pro	Trp Val Leu Gln Asp	Tyr Val Ser Pro Thr	Leu
380	385	390	
Asp Leu Ser Asn	Pro Ala Val Phe Arg	Asp Leu Ser Lys Pro	Ile
395	400	405	
Gly Val Val Asn	Pro Lys His Ala Gln	Leu Val Arg Glu Lys	Tyr
410	415	420	
Glu Ser Phe Glu	Asp Pro Ala Gly Thr	Ile Asp Lys Phe His	Tyr
425	430	435	
Gly Thr His Tyr	Ser Asn Ala Ala Gly	Val Met His Tyr Leu	Ile
440	445	450	
Arg Val Glu Pro	Phe Thr Ser Leu His	Val Gln Leu Gln Ser	Gly
455	460	465	
Arg Phe Asp Cys	Ser Asp Arg Gln Phe	His Ser Val Ala Ala	Ala

P2730P1sequencelisting.txt

470										475	480									
Trp	Gln	Ala	Arg	Leu	Glu	Ser	Pro	Ala	Asp	Val	Lys	Glu	Leu	Ile						
				485					490					495						
Pro	Glu	Phe	Phe	Tyr	Phe	Pro	Asp	Phe	Leu	Glu	Asn	Gln	Asn	Gly						
				500					505					510						
Phe	Asp	Leu	Gly	Cys	Leu	Gln	Leu	Thr	Asn	Glu	Lys	Val	Gly	Asp						
				515					520					525						
Val	Val	Leu	Pro	Pro	Trp	Ala	Ser	Ser	Pro	Glu	Asp	Phe	Ile	Gln						
				530					535					540						
Gln	His	Arg	Gln	Ala	Leu	Glu	Ser	Glu	Tyr	Val	Ser	Ala	His	Leu						
				545					550					555						
His	Glu	Trp	Ile	Asp	Leu	Ile	Phe	Gly	Tyr	Lys	Gln	Arg	Gly	Pro						
				560					565					570						
Ala	Ala	Glu	Glu	Ala	Leu	Asn	Val	Phe	Tyr	Tyr	Cys	Thr	Tyr	Glu						
				575					580					585						
Gly	Ala	Val	Asp	Leu	Asp	His	Val	Thr	Asp	Glu	Arg	Glu	Arg	Lys						
				590					595					600						
Ala	Leu	Glu	Gly	Ile	Ile	Ser	Asn	Phe	Gly	Gln	Thr	Pro	Cys	Gln						
				605					610					615						
Leu	Leu	Lys	Glu	Pro	His	Pro	Thr	Arg	Leu	Ser	Ala	Glu	Glu	Ala						
				620					625					630						
Ala	His	Arg	Leu	Ala	Arg	Leu	Asp	Thr	Asn	Ser	Pro	Ser	Ile	Phe						
				635					640					645						
Gln	His	Leu	Asp	Glu	Leu	Lys	Ala	Phe	Phe	Ala	Glu	Val	Thr	Val						
				650					655					660						
Ser	Ala	Ser	Gly	Leu	Leu	Gly	Thr	His	Ser	Trp	Leu	Pro	Tyr	Asp						
				665					670					675						
Arg	Asn	Ile	Ser	Asn	Tyr	Phe	Ser	Phe	Ser	Lys	Asp	Pro	Thr	Met						
				680					685					690						
Gly	Ser	His	Lys	Thr	Gln	Arg	Leu	Leu	Ser	Gly	Pro	Trp	Val	Pro						
				695					700					705						
Gly	Ser	Gly	Val	Ser	Gly	Gln	Ala	Leu	Ala	Val	Ala	Pro	Asp	Gly						
				710					715					720						
Lys	Leu	Leu	Phe	Ser	Gly	Gly	His	Trp	Asp	Gly	Ser	Leu	Arg	Val						
				725					730					735						
Thr	Ala	Leu	Pro	Arg	Gly	Lys	Leu	Leu	Ser	Gln	Leu	Ser	Cys	His						
				740					745					750						
Leu	Asp	Val	Val	Thr	Cys	Leu	Ala	Leu	Asp	Thr	Cys	Gly	Ile	Tyr						
				755					760					765						
Leu	Ile	Ser	Gly	Ser	Arg	Asp	Thr	Thr	Cys	Met	Val	Trp	Arg	Leu						
				770					775					780						
Leu	His	Gln	Gly	Gly	Leu	Ser	Val	Gly	Leu	Ala	Pro	Lys	Pro	Val						
				785					790					795						
Gln	Val	Leu	Tyr	Gly	His	Gly	Ala	Ala	Val	Ser	Cys	Val	Ala	Ile						
				800					805					810						

P2730P1sequencelisting.txt

```

Ser Thr Glu Leu Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr
      815      820      825
val Ile Ile His Thr val Arg Arg Gly Gln Phe val Ala Ala Leu
      830      835      840
Arg Pro Leu Gly Ala Thr Phe Pro Gly Pro Ile Phe His Leu Ala
      845      850      855
Leu Gly Ser Glu Gly Gln Ile Val Val Gln Ser Ser Ala Trp Glu
      860      865      870
Arg Pro Gly Ala Gln val Thr Tyr Ser Leu His Leu Tyr Ser val
      875      880      885
Asn Gly Lys Leu Arg Ala Ser Leu Pro Leu Ala Glu Gln Pro Thr
      890      895      900
Ala Leu Thr val Thr Glu Asp Phe Val Leu Leu Gly Thr Ala Gln
      905      910      915
Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu Leu Pro Ala Ala
      920      925      930
Pro Pro Leu Pro Met Lys val Ala Ile Arg Ser val Ala val Thr
      935      940      945
Lys Glu Arg Ser His val Leu val Gly Leu Glu Asp Gly Lys Leu
      950      955      960
Ile val val val Ala Gly Gln Pro Ser Glu val Arg Ser Ser Gln
      965      970      975
Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln val
      980      985      990
Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg
      995      1000

```

<210> 34
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 34
 tgactgcact accccgtggc aagctgttga gccagctcag ctg 43

<210> 35
 <211> 1395
 <212> DNA
 <213> Homo sapiens

<400> 35
 cggacgcgtg ggcggacgcg tgggggctgt gagaaagtgc caataaatac 50
 atcatgcaac cccacggccc accttgtgaa ctctcgtgc ccagggtga 100
 tgtgcgtctt ccagggttac tcattcaaag gcctaatacca acgttctgtc 150
 ttcaatctgc aaatctatgg ggtcctgggg ctcttctgga cccttaactg 200
 ggtactggcc ctgggccaat gcgtcctcgc tggagccttt gcctccttct 250
 actgggcctt ccacaagccc caggacatcc ctaccttccc cttaatctct 300

P2730P1sequencelisting.txt

gccttcatcc gcacactccg ttaccacact gggtcattgg catttggagc 350
cctcatcctg acccttgtgc agatagcccg ggtcatcttg gagtatattg 400
accacaagct cagaggagtg cagaaccctg tagcccgtg catcatgtgc 450
tgtttcaagt gctgcctctg gtgtctggaa aaatttatca agttcctaaa 500
ccgcaatgca tacatcatga tcgccatcta cgggaagaat ttctgtgtct 550
cagccaaaaa tgcgttcatg ctactcatgc gaaacattgt cagggtgggtc 600
gtcctggaca aagtcacaga ectgctgctg ttctttggga agctgctggt 650
ggtcggaggc gtgggggtcc tgtccttctt ttttttctcc ggtcgcattc 700
cggggctggg taaagacttt aagagccccc acctcaacta ttactggctg 750
cccatcatga cctccatcct gggggcctat gtcatcgcca gcggcttctt 800
cagcgttttc ggcattgtgtg tggacacgct cttcctctgc ttcctggaag 850
acctggagcg gaacaacggc tccctggacc ggccctacta catgtccaag 900
agcctttctaa agattctggg caagaagaac gaggcgcccc cggacaacaa 950
gaagaggaag aagtgcacgc tccggccctg atccaggact gcaccccacc 1000
cccaccgtcc agccatccaa cctcacttctg ccttacaggt ctccattttg 1050
tggtaaaaaa aggttttagg ccaggcgccg tggctcacgc ctgtaatcca 1100
acactttgag aggctgaggc gggcggatca cctgagtcag gagttcgaga 1150
ccagcctggc caacatggtg aaacctccgt ctctattaaa aatacaaaaa 1200
ttagccgaga gtggtggcat gcacctgtca tcccagctac tcgggagggt 1250
gaggcaggag aatcgcttga acccgggagg cagaggttgc agtgagccga 1300
gatcgcgcca ctgcactcca acctgggtga cagactctgt ctccaaaaca 1350
aaacaaacaa acaaaaagat ttatttaaag atattttgtt aactc 1395

<210> 36
<211> 321
<212> PRT
<213> Homo sapiens

<400> 36
Arg Thr Arg Gly Arg Thr Arg Gly Gly Cys Glu Lys Val Pro Ile
1 5 10 15
Asn Thr Ser Cys Asn Pro Thr Ala His Leu Val Asn Ser Ser Cys
20 25 30
Pro Gly Leu Met Cys Val Phe Gln Gly Tyr Ser Ser Lys Gly Leu
35 40 45
Ile Gln Arg Ser Val Phe Asn Leu Gln Ile Tyr Gly Val Leu Gly
50 55 60
Leu Phe Trp Thr Leu Asn Trp Val Leu Ala Leu Gly Gln Cys Val
65 70 75
Leu Ala Gly Ala Phe Ala Ser Phe Tyr Trp Ala Phe His Lys Pro
80 85 90

P2730P1sequencelisting.txt

Gln Asp Ile Pro Thr	Phe Pro Leu Ile	Ser Ala Phe Ile Arg	Thr
95		100	105
Leu Arg Tyr His Thr	Gly Ser Leu Ala	Phe Gly Ala Leu Ile	Leu
110		115	120
Thr Leu Val Gln Ile	Ala Arg Val Ile	Leu Glu Tyr Ile Asp	His
125		130	135
Lys Leu Arg Gly Val	Gln Asn Pro Val	Ala Arg Cys Ile Met	Cys
140		145	150
Cys Phe Lys Cys Cys	Leu Trp Cys Leu	Glu Lys Phe Ile Lys	Phe
155		160	165
Leu Asn Arg Asn Ala	Tyr Ile Met Ile	Ala Ile Tyr Gly Lys	Asn
170		175	180
Phe Cys Val Ser Ala	Lys Asn Ala Phe	Met Leu Leu Met Arg	Asn
185		190	195
Ile Val Arg Val Val	Val Leu Asp Lys	Val Thr Asp Leu Leu	Leu
200		205	210
Phe Phe Gly Lys Leu	Leu Val Val Gly	Gly Val Gly Val Leu	Ser
215		220	225
Phe Phe Phe Phe Ser	Gly Arg Ile Pro	Gly Leu Gly Lys Asp	Phe
230		235	240
Lys Ser Pro His Leu	Asn Tyr Tyr Trp	Leu Pro Ile Met Thr	Ser
245		250	255
Ile Leu Gly Ala Tyr	Val Ile Ala Ser	Gly Phe Phe Ser Val	Phe
260		265	270
Gly Met Cys Val Asp	Thr Leu Phe Leu	Cys Phe Leu Glu Asp	Leu
275		280	285
Glu Arg Asn Asn Gly	Ser Leu Asp Arg	Pro Tyr Tyr Met Ser	Lys
290		295	300
Ser Leu Leu Lys Ile	Leu Gly Lys Lys	Asn Glu Ala Pro Pro	Asp
305		310	315
Asn Lys Lys Arg Lys	Lys		
320			

<210> 37

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 37

tcgtgcccag gggctgatgt gc 22

<210> 38

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 38

gtctttaccc agccccggga tgcg 24

<210> 39

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 39

ggcctaatcc aacgttctgt cttcaatctg caaatctatg gggtcctggg 50

<210> 40

<211> 1365

<212> DNA

<213> Homo sapiens

<400> 40

gagtcttgac cgccgccggg ctcttggtac ctcagcgca gcgccaggcg 50
 tccggccgcc gtggctatgt tcgtgtccga tttccgaaa gagttctacg 100
 aggtggtcca gagccagagg gtccttctct tcgtggcctc ggacgtggat 150
 gctctgtgtg cgtgcaagat ccttcaggcc ttgttccagt gtgaccacgt 200
 gcaatatacg ctggttccag tttctgggtg gcaagaactt gaaactgcat 250
 ttcttgagca taaagaacag tttcattatt ttattctcat aaactgtgga 300
 gctaattgtag acctattgga tattcttcaa cctgatgaag acactatatt 350
 ctttgtgtgt gactcccata ggccagtcaa tgctgtcaat gtatacaacg 400
 ataccagat caaattactc attaaacaag atgatgacct tgaagttccc 450
 gcctatgaag acatcttcag ggatgaagag gaggatgaag agcattcagg 500
 aaatgacagt gatgggtcag agccttctga gaagcgaca cggttagaag 550
 aggagatagt ggagcaaacc atgcggagga ggcagcgcg agagtgggag 600
 gcccggagaa gagacatcct ctttgactac gagcagtatg aatatcatgg 650
 gacatcgtca gccatgggtga tgtttgagct ggcttgatg ctgtccaagg 700
 acctgaatga catgctgtgg tgggccatcg ttggactaac agaccagtgg 750
 gtgcaagaca agatcactca aatgaaatac gtgactgatg ttggtgtcct 800
 gcagcgccac gtttcccgcc acaaccaccg gaacgaggat gaggagaaca 850
 cactctccgt ggactgcaca cgcatctcct ttgagtatga cctccgcctg 900
 gtgtcttacc agcactgggtc cctccatgac agcctgtgca acaccagcta 950
 taccgcagcc aggttcaagc tgtggtctgt gcatggacag aagcggctcc 1000
 aggagttcct tgcagacatg ggtcttcccc tgaagcaggt gaagcagaag 1050
 ttccaggcca tggacatctc cttgaaggag aatttgctgg aaatgattga 1100
 agagtctgca aataaatttg ggatgaagga catgctgctg cagactttca 1150
 gcattcattt tgggttcaag cacaagtttc tggccagcga cgtggtcttt 1200
 gccaccatgt ctttgatgga gagccccgag aaggatggct cagggacaga 1250

P2730P1sequencelisting.txt

tcacttcac caggctctgg acagcctctc caggagtaac ctggacaagc 1300
 tgtaccatgg cctggaactc gccaaagaagc agctgcgagc caccagcag 1350
 accattgccca gctgc 1365

<210> 41
 <211> 566
 <212> PRT
 <213> Homo sapiens

<400> 41
 Met Phe Val Ser Asp Phe Arg Lys Glu Phe Tyr Glu Val Val Gln
 1 5 10 15
 Ser Gln Arg Val Leu Leu Phe Val Ala Ser Asp Val Asp Ala Leu
 20 25 30
 Cys Ala Cys Lys Ile Leu Gln Ala Leu Phe Gln Cys Asp His Val
 35 40 45
 Gln Tyr Thr Leu Val Pro Val Ser Gly Trp Gln Glu Leu Glu Thr
 50 55 60
 Ala Phe Leu Glu His Lys Glu Gln Phe His Tyr Phe Ile Leu Ile
 65 70 75
 Asn Cys Gly Ala Asn Val Asp Leu Leu Asp Ile Leu Gln Pro Asp
 80 85 90
 Glu Asp Thr Ile Phe Phe Val Cys Asp Ser His Arg Pro Val Asn
 95 100 105
 Val Val Asn Val Tyr Asn Asp Thr Gln Ile Lys Leu Leu Ile Lys
 110 115 120
 Gln Asp Asp Asp Leu Glu Val Pro Ala Tyr Glu Asp Ile Phe Arg
 125 130 135
 Asp Glu Glu Glu Asp Glu Glu His Ser Gly Asn Asp Ser Asp Gly
 140 145 150
 Ser Glu Pro Ser Glu Lys Arg Thr Arg Leu Glu Glu Glu Ile Val
 155 160 165
 Glu Gln Thr Met Arg Arg Arg Gln Arg Arg Glu Trp Glu Ala Arg
 170 175 180
 Arg Arg Asp Ile Leu Phe Asp Tyr Glu Gln Tyr Glu Tyr His Gly
 185 190 195
 Thr Ser Ser Ala Met Val Met Phe Glu Leu Ala Trp Met Leu Ser
 200 205 210
 Lys Asp Leu Asn Asp Met Leu Trp Trp Ala Ile Val Gly Leu Thr
 215 220 225
 Asp Gln Trp Val Gln Asp Lys Ile Thr Gln Met Lys Tyr Val Thr
 230 235 240
 Asp Val Gly Val Leu Gln Arg His Val Ser Arg His Asn His Arg
 245 250 255
 Asn Glu Asp Glu Glu Asn Thr Leu Ser Val Asp Cys Thr Arg Ile
 260 265 270
 Ser Phe Glu Tyr Asp Leu Arg Leu Val Leu Tyr Gln His Trp Ser
 Page 42

P2730P1sequencelisting.txt

275		280	285
Leu His Asp Ser	Leu Cys Asn Thr Ser Tyr Thr Ala Ala Arg Phe		
	290	295	300
Lys Leu Trp Ser	Val His Gly Gln Lys Arg Leu Gln Glu Phe Leu		
	305	310	315
Ala Asp Met Gly	Leu Pro Leu Lys Gln Val Lys Gln Lys Phe Gln		
	320	325	330
Ala Met Asp Ile	Ser Leu Lys Glu Asn Leu Arg Glu Met Ile Glu		
	335	340	345
Glu Ser Ala Asn	Lys Phe Gly Met Lys Asp Met Arg Val Gln Thr		
	350	355	360
Phe Ser Ile His	Phe Gly Phe Lys His Lys Phe Leu Ala Ser Asp		
	365	370	375
Val Val Phe Ala	Thr Met Ser Leu Met Glu Ser Pro Glu Lys Asp		
	380	385	390
Gly Ser Gly Thr	Asp His Phe Ile Gln Ala Leu Asp Ser Leu Ser		
	395	400	405
Arg Ser Asn Leu	Asp Lys Leu Tyr His Gly Leu Glu Leu Ala Lys		
	410	415	420
Lys Gln Leu Arg	Ala Thr Gln Gln Thr Ile Ala Ser Cys Leu Cys		
	425	430	435
Thr Asn Leu Val	Ile Ser Gln Gly Pro Phe Leu Tyr Cys Ser Leu		
	440	445	450
Met Glu Gly Thr	Pro Asp Val Met Leu Phe Ser Arg Pro Ala Ser		
	455	460	465
Leu Ser Leu Leu	Ser Lys His Leu Leu Lys Ser Phe Val Cys Ser		
	470	475	480
Thr Lys Asn Arg	Arg Cys Lys Leu Leu Pro Leu Val Met Ala Ala		
	485	490	495
Pro Leu Ser Met	Glu His Gly Thr Val Thr Val Val Gly Ile Pro		
	500	505	510
Pro Glu Thr Asp	Ser Ser Asp Arg Lys Asn Phe Phe Gly Arg Ala		
	515	520	525
Phe Glu Lys Ala	Ala Glu Ser Thr Ser Ser Arg Met Leu His Asn		
	530	535	540
His Phe Asp Leu	Ser Val Ile Glu Leu Lys Ala Glu Asp Arg Ser		
	545	550	555
Lys Phe Leu Asp	Ala Leu Ile Ser Leu Leu Ser		
	560	565	

<210> 42
 <211> 380
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> unsure
 <222> 44, 118, 172, 183
 <223> unknown base

P2730P1sequencelisting.txt

<400> 42
 gtacctcagc gcgagcgcca ggcgtccggc cgccgtggct atgntcgtgt 50
 ccgatttccg caaagagttc tacgaggtgg tccagagcca gagggtcctt 100
 ctcttcgtgg cctcggangt ggatgctctg tgtgcgtgca agatccttca 150
 ggccttgttc cagtgtgacc angtgcaata tangctgggt ccagtttctg 200
 ggtggcaaga acttgaaact gcatttcttg agcataaaga acagtttcat 250
 tattttattc tcataaactg tggagctaata gtagacctat tggatattct 300
 tcaacctgat gaagacacta tattctttgt gtgtgacacc cataggccag 350
 tcaatgttgt caatgtatac aacgataccc 380

<210> 43
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 43
 ttccgcaaag agttctacga ggtgg 25

<210> 44
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 44
 attgacaaca ttgactggcc tatggg 26

<210> 45
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 45
 gtggatgctc tgtgtgcgtg caagatcctt caggccttgt tccagtgtga 50

<210> 46
 <211> 3089
 <212> DNA
 <213> Homo sapiens

<400> 46
 caggaaccct ctctttgggt ctggattggg acccctttcc agtaccattt 50
 tttctagtga accacgaagg gacgatacca gaaaacaccc tcaacccaaa 100
 ggaaatagac tacagcccca attggctgac tttggctata gaaaaagaa 150
 aggaacgaaa agagacagtt ttttttgaa agctaagtct tccctttatc 200
 gagtcaagaa accccccctt cttgagctat ttacagcttt taacaattga 250
 gtaaagtacg ctccggtcac catggtgaca gccgccctgg gtcccgtctg 300

P2730P1sequencelisting.txt

```

ggcagcgctc ctgctctttc tcctgatgtg tgagatccgt atggtggagc 350
tcacctttga cagagctgtg gccagcggct gccaacggtg ctgtgactct 400
gaggaccccc tggatcctgc ccatgtatcc tcagcctctt cctccggccg 450
cccccacgcc ctgcctgaga tcagacccta cattaatatc accatcctga 500
aggggtgacaa agggggaccca ggcccaatgg gcctgccagg gtacatgggc 550
agggaggggtc cccaagggga gcctggccct cagggcagca agggtgacaa 600
gggggagatg ggcagccccg gcgccccgtg ccagaagcgc ttcttcgcct 650
tctcagtggg ccgcaagacg gccctgcaca gcggcgagga cttccagacg 700
ctgctcttcg aaagggtctt tgtgaacctt gatgggtgct ttgacatggc 750
gaccggccag tttgctgctc ccctgcgtgg catctacttc ttcagcctca 800
atgtgcacag ctggaattac aaggagacgt acgtgcacat tatgcataac 850
cagaaagagg ctgtcatcct gtacgcgcag cccagcgagc gcagcatcat 900
gcagagccag agtgtgatgc tggacctggc ctacggggac cgcgtctggg 950
tgcggctctt caagcgccag cgcgagaacg ccatctacag caacgacttc 1000
gacacctaca tcaccttcag cggccacctc atcaaggccg aggacgactg 1050
agggcctctg ggccaccctc ccggtggag agctcaggtg ctggtcccgt 1100
cccctgcagg gctcagtttg cactgctgtg aagcaggaag gccagggagg 1150
tccccgggga cctggcattc tggggagacc ctgcttctat cttggctgcc 1200
atcatccctc ccagcctatt tctgctcctc tcttctctct tggacctatt 1250
ttaagaagct tgctaacctc aatattctag aactttccca gcctcgtagc 1300
ccagcacttc tcaaacttgg aaatgcatgc gaatcacccg gggttcgtgt 1350
taaatgcaga ttctgactca gcaggctctga gtgggtccag gattctgtgt 1400
ttctcatatg ttcttgggtg atgctgatgg ggtcagtcta tgaaccacac 1450
tggagcaacc aggttctagg actttctcaa tattctagta ctttctgaac 1500
attctggaat cctccccaca ttctagaatt ctcccaacat tttttttct 1550
tgagacagag tcttgctctg ttgcccaggc tagagtgcag tggtgcaatc 1600
tcagttcact gcaacctctg cctcccgggt tcaagcgatt cttctgcctc 1650
agcctcccta gtggctggga ttacaggcgc ctgctaccat gcctggctaa 1700
tttttgattt tttagtagag atggggtttc accatattgg ccaggctggg 1750
cttgaactcc tgacttcagg tgaccaccc gcctcggcct ctcaaaatgc 1800
tgggattaca ggtgtgagcc accgtgcctg gccaattcca acattcttaa 1850
attctctcat ccctccaggg ctccccgtgc tatgttctct ttacccttc 1900
cccctcttct cttgctcagg cctgcaccac tgcagccacc gttcatttat 1950
tcattcatta aacactgagc actcactctg tgctgggtcc cgggaagggt 2000

```

P2730P1sequencelisting.txt

gagggggtca gacacaggcc ctgcccctgc cctcagtgc tggccagtcc 2050
agcccaggcg gggagagatg tgtacatagg ttttaaagca gacccagagc 2100
tcatgggggc ctgtgttctg ggtgttcagg tgctgctggt cctccattac 2150
ccactgctcc ccaaggctgg tgggacgggg tcccgggtggc aggggcaggt 2200
atctccttcc cgttcctcat ccacctgccc agtgctcatc gttacagcaa 2250
accccagggg gccttgggcca ggtcaagggg tctgtgagga gaggacccag 2300
gagtgtgggg gcatttgggg ggtgaagtgg cccccgaaga atggaacca 2350
cacccatagc tctccccaca gctgatacgg catcctgcga gaagacctgc 2400
cctcctcact gggatcccct tcctgcctcc tcccagggtc ctgccagggc 2450
cttgcctcagt ccttccacc aaagtcatct gaacttccgt tccccaggg 2500
cctccagctg cctcagaca ctgatgtctg tcccagggtg ctctctgccc 2550
ctcatgcccc tctcaccggc ccagtgcctc gactctccag gctttatcaa 2600
ggtgctaagg cccgggtggg cagctcctcg tctcagagcc ctctccggc 2650
ctggtgctgc ctttacaac acctgcagga gaagggccac ggaagcccca 2700
ggcttttagag ccctcagcag gtctggggag ctagagcaaa ggaggacct 2750
caggccttcc gtttcttctt ccagggtggg gtggcctggt gttcccctag 2800
ccttccaaac ccagggtggc tgcccttctc cccagaggga ggcggcctcc 2850
gcccattggt gctcatgcag actctggggc tgagggtgccc cggggggtga 2900
tctctggtgc tcacagccga gggagccgtg gctccatggc cagatgacgg 2950
aaacagggtc tgaccaagtg ccaggaagac ctgtgctata aaccaccctg 3000
cctgatcctg cccctgcctg accccgccac gccctgccgt ccagcatgat 3050
taaagaatgc tgtctcctct tggaaaaaa aaaaaaaa 3089

<210> 47
<211> 259
<212> PRT
<213> Homo sapiens

<220>
<221> Signal Peptide
<222> 1-20
<223> Signal Peptide

<220>
<221> N-glycosylation Site
<222> 72-75
<223> N-glycosylation Site

<220>
<221> Clq Domain Proteins
<222> 144-178, 78-111, 84-117
<223> Clq Domain Proteins

<400> 47
Met Val Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu Leu Leu
1 5 10 15

P2730P1sequencelisting.txt

```

Phe Leu Leu Met Cys Glu Ile Arg Met Val Glu Leu Thr Phe Asp
      20      25      30
Arg Ala Val Ala Ser Gly Cys Gln Arg Cys Cys Asp Ser Glu Asp
      35      40      45
Pro Leu Asp Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg
      50      55      60
Pro His Ala Leu Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile
      65      70      75
Leu Lys Gly Asp Lys Gly Asp Pro Gly Pro Met Gly Leu Pro Gly
      80      85      90
Tyr Met Gly Arg Glu Gly Pro Gln Gly Glu Pro Gly Pro Gln Gly
      95     100     105
Ser Lys Gly Asp Lys Gly Glu Met Gly Ser Pro Gly Ala Pro Cys
     110     115     120
Gln Lys Arg Phe Phe Ala Phe Ser Val Gly Arg Lys Thr Ala Leu
     125     130     135
His Ser Gly Glu Asp Phe Gln Thr Leu Leu Phe Glu Arg Val Phe
     140     145     150
Val Asn Leu Asp Gly Cys Phe Asp Met Ala Thr Gly Gln Phe Ala
     155     160     165
Ala Pro Leu Arg Gly Ile Tyr Phe Phe Ser Leu Asn Val His Ser
     170     175     180
Trp Asn Tyr Lys Glu Thr Tyr Val His Ile Met His Asn Gln Lys
     185     190     195
Glu Ala Val Ile Leu Tyr Ala Gln Pro Ser Glu Arg Ser Ile Met
     200     205     210
Gln Ser Gln Ser Val Met Leu Asp Leu Ala Tyr Gly Asp Arg Val
     215     220     225
Trp Val Arg Leu Phe Lys Arg Gln Arg Glu Asn Ala Ile Tyr Ser
     230     235     240
Asn Asp Phe Asp Thr Tyr Ile Thr Phe Ser Gly His Leu Ile Lys
     245     250     255

Ala Glu Asp Asp

```

<210> 48

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 48

ccagacgctg ctcttcgaaa gggtc 25

<210> 49

<211> 23

<212> DNA

<213> Artificial Sequence

P2730P1sequencelisting.txt

<220>

<223> Synthetic oligonucleotide probe

<400> 49

ggtccccgta ggccaggtcc agc 23

<210> 50

<211> 50

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 50

ctacttcttc agcctcaatg tgcacagctg gaattacaag gagacgtacg 50

<210> 51

<211> 2768

<212> DNA

<213> Homo sapiens

<400> 51

actcgaacgc agttgcttcg ggacccagga cccctcggg cccgacccgc 50
caggaaagac tgaggccgcg gcctgccccg cccggctccc tgcgccgccg 100
ccgcctcccg ggacagaaga tgtgctccag ggtccctctg ctgctgccgc 150
tgctcctgct actggccctg gggcctgggg tgcagggctg cccatccggc 200
tgccagtga gccagccaca gacagtcttc tgactgccc gccaggggac 250
cacggtgccc cgagacgtgc caccgacac ggtggggctg tacgtctttg 300
agaacggcat caccatgctc gacgcaggca gctttgccgg cctgccgggc 350
ctgcagctcc tggacctgtc acagaaccag atcgccagcc tgcccagcgg 400
ggctttccag ccaactcgcca acctcagcaa cctggacctg acggccaaca 450
ggctgcatga aatcaccaat gagaccttcc gtggcctgcg gcgcctcgag 500
cgcctctacc tgggcaagaa ccgcatccgc cacatccagc ctgggtgcctt 550
cgacacgtc gaccgcctcc tggagtcaa gctgcaggac aacgagctgc 600
gggcaactgcc cccgtgcgc ctgccccgcc tgctgctgct ggacctcagc 650
cacaacagcc tcctggccct ggagcccggc atcctggaca ctgccaacgt 700
ggaggcgctg cggctggctg gtctggggct gcagcagctg gacgaggggc 750
tcttcagccg cttgcgcaac ctccacgacc tggatgtgtc cgacaaccag 800
ctggagcgag tgccacctgt gatccgaggc ctccggggcc tgacgcgcct 850
gcggctggcc ggcaacaccc gcattgccc a gctgcggccc gaggacctgg 900
ccggcctggc tgccctgcag gagctggatg tgagcaacct aagcctgcag 950
gccctgcctg gcgacctctc gggcctcttc cccgcctgc ggctgctggc 1000
agctgcccgc aacccttca actgctgtg cccctgagc tggtttgcc 1050
cctgggtgcg cgagagccac gtcacactgg ccagccctga ggagacgcgc 1100
tgccacttcc cgcccaagaa cgctggccgg ctgctcctgg agcttgacta 1150

P2730P1sequencelisting.txt

cgccgacttt ggctgcccag ccaccaccac cacagccaca gtgcccacca 1200
cgaggcccgt ggtgcgggag cccacagcct tgtcttctag cttggctcct 1250
acctggctta gccccacagc gccggccact gaggcccca gccgcccctc 1300
cactgccccca ccgactgtag ggcctgtccc ccagccccag gactgcccac 1350
cgtccacctg cctcaatggg ggcacatgcc acctggggac acggcaccac 1400
ctggcgctgt tgtgccccga aggccttcacg ggcctgtact gtgagagcca 1450
gatggggcag gggacacggc ccagccctac accagtcacg ccgaggccac 1500
cacggtccct gaccctgggc atcgagccgg tgagccccac ctccctgcgc 1550
gtggggctgc agcgctacct ccaggggagc tccgtgcagc tcaggagcct 1600
ccgtctcacc tatcgcaacc tatcggggcc tgataagcgg ctggtgacgc 1650
tgcgactgcc tgcctcgctc gctgagtaca cggtcaccca gctgcggccc 1700
aacgccactt actccgtctg tgtcatgcct ttggggcccg ggcgggtgcc 1750
ggagggcgag gaggcctgcg gggaggccca tacaccccca gccgtccact 1800
ccaaccacgc cccagtcacc caggcccgcg agggcaacct gccgtcctc 1850
attgcgcccg ccctggccgc ggtgctcctg gccgcgctgg ctgcggtggg 1900
ggcagcctac tgtgtgcggc gggggcgggc catggcagca gcggctcagg 1950
acaaagggca ggtggggcca ggggctgggc ccctggaact ggagggagtg 2000
aaggtcccct tggagccagg cccgaaggca acagagggcg gtggagaggc 2050
cctgcccagc gggcttgagt gtgagggtgcc actcatgggc ttcccagggc 2100
ctggcctcca gtcaccctc cacgcaaagc cctacatcta agccagagag 2150
agacagggca gctggggccg ggctctcagc cagtgaatg gccagcccc 2200
tcctgctgcc acaccacgta agttctcagt cccaacctcg gggatgtgtg 2250
cagacagggc tgtgtgacca cagctgggcc ctgttccctc tggacctcg 2300
tctcctcctc tgtgagatgc tgtggcccag ctgacgagcc ctaacgtccc 2350
cagaaccgag tgcctatgag gacagtgtcc gccctgccct ccgcaacgtg 2400
cagtccttgg gcacggcggg ccctgccatg tgctggtaac gcatgcctgg 2450
gtcctgctgg gctctccac tccaggcgga ccctgggggc cagtgaagga 2500
agctcccgga aagagcagag ggagagcggg taggcggctg tgtgactcta 2550
gtcttgcccc caggaagcga aggaacaaaa gaaactggaa aggaagatgc 2600
tttaggaaca tgttttgctt ttttaaata tatatattta taagagatcc 2650
tttccattt attctgggaa gatgttttc aaactcagag acaaggactt 2700
tggtttttgt aagacaaacg atgatatgaa ggccttttgt aagaaaaaat 2750
aaaagatgaa gtgtgaaa 2768

P2730P1sequencelisting.txt

<211> 673

<212> PRT

<213> Homo sapiens

<400> 52

```

Met Cys Ser Arg Val Pro Leu Leu Leu Pro Leu Leu Leu Leu Leu
 1      5      10      15
Ala Leu Gly Pro Gly Val Gln Gly Cys Pro Ser Gly Cys Gln Cys
 20      25      30
Ser Gln Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr
 35      40      45
Val Pro Arg Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe
 50      55      60
Glu Asn Gly Ile Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu
 65      70      75
Pro Gly Leu Gln Leu Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser
 80      85      90
Leu Pro Ser Gly Val Phe Gln Pro Leu Ala Asn Leu Ser Asn Leu
 95      100     105
Asp Leu Thr Ala Asn Arg Leu His Glu Ile Thr Asn Glu Thr Phe
110     115     120
Arg Gly Leu Arg Arg Leu Glu Arg Leu Tyr Leu Gly Lys Asn Arg
125     130     135
Ile Arg His Ile Gln Pro Gly Ala Phe Asp Thr Leu Asp Arg Leu
140     145     150
Leu Glu Leu Lys Leu Gln Asp Asn Glu Leu Arg Ala Leu Pro Pro
155     160     165
Leu Arg Leu Pro Arg Leu Leu Leu Leu Asp Leu Ser His Asn Ser
170     175     180
Leu Leu Ala Leu Glu Pro Gly Ile Leu Asp Thr Ala Asn Val Glu
185     190     195
Ala Leu Arg Leu Ala Gly Leu Gly Leu Gln Gln Leu Asp Glu Gly
200     205     210
Leu Phe Ser Arg Leu Arg Asn Leu His Asp Leu Asp Val Ser Asp
215     220     225
Asn Gln Leu Glu Arg Val Pro Pro Val Ile Arg Gly Leu Arg Gly
230     235     240
Leu Thr Arg Leu Arg Leu Ala Gly Asn Thr Arg Ile Ala Gln Leu
245     250     255
Arg Pro Glu Asp Leu Ala Gly Leu Ala Ala Leu Gln Glu Leu Asp
260     265     270
Val Ser Asn Leu Ser Leu Gln Ala Leu Pro Gly Asp Leu Ser Gly
275     280     285
Leu Phe Pro Arg Leu Arg Leu Leu Ala Ala Ala Arg Asn Pro Phe
290     295     300
Asn Cys Val Cys Pro Leu Ser Trp Phe Gly Pro Trp Val Arg Glu
305     310     315

```

P2730P1sequencelisting.txt

Ser His Val Thr	Leu Ala Ser Pro Glu	Glu Thr Arg Cys His	Phe
320		325	330
Pro Pro Lys Asn	Ala Gly Arg Leu Leu	Leu Glu Leu Asp Tyr	Ala
335		340	345
Asp Phe Gly Cys	Pro Ala Thr Thr Thr	Thr Ala Thr Val Pro	Thr
350		355	360
Thr Arg Pro Val	Val Arg Glu Pro Thr	Ala Leu Ser Ser Ser	Leu
365		370	375
Ala Pro Thr Trp	Leu Ser Pro Thr Ala	Pro Ala Thr Glu Ala	Pro
380		385	390
Ser Pro Pro Ser	Thr Ala Pro Pro Thr	Val Gly Pro Val Pro	Gln
395		400	405
Pro Gln Asp Cys	Pro Pro Ser Thr Cys	Leu Asn Gly Gly Thr	Cys
410		415	420
His Leu Gly Thr	Arg His His Leu Ala	Cys Leu Cys Pro Glu	Gly
425		430	435
Phe Thr Gly Leu	Tyr Cys Glu Ser Gln	Met Gly Gln Gly Thr	Arg
440		445	450
Pro Ser Pro Thr	Pro Val Thr Pro Arg	Pro Pro Arg Ser Leu	Thr
455		460	465
Leu Gly Ile Glu	Pro Val Ser Pro Thr	Ser Leu Arg Val Gly	Leu
470		475	480
Gln Arg Tyr Leu	Gln Gly Ser Ser Val	Gln Leu Arg Ser Leu	Arg
485		490	495
Leu Thr Tyr Arg	Asn Leu Ser Gly Pro	Asp Lys Arg Leu Val	Thr
500		505	510
Leu Arg Leu Pro	Ala Ser Leu Ala Glu	Tyr Thr Val Thr Gln	Leu
515		520	525
Arg Pro Asn Ala	Thr Tyr Ser Val Cys	Val Met Pro Leu Gly	Pro
530		535	540
Gly Arg Val Pro	Glu Gly Glu Glu Ala	Cys Gly Glu Ala His	Thr
545		550	555
Pro Pro Ala Val	His Ser Asn His Ala	Pro Val Thr Gln Ala	Arg
560		565	570
Glu Gly Asn Leu	Pro Leu Leu Ile Ala	Pro Ala Leu Ala Ala	Val
575		580	585
Leu Leu Ala Ala	Leu Ala Ala Val Gly	Ala Ala Tyr Cys Val	Arg
590		595	600
Arg Gly Arg Ala	Met Ala Ala Ala Ala	Gln Asp Lys Gly Gln	Val
605		610	615
Gly Pro Gly Ala	Gly Pro Leu Glu Leu	Glu Gly Val Lys Val	Pro
620		625	630
Leu Glu Pro Gly	Pro Lys Ala Thr Glu	Gly Gly Gly Glu Ala	Leu
635		640	645
Pro Ser Gly Ser	Glu Cys Glu Val Pro	Leu Met Gly Phe Pro	Gly
650		655	660

P2730P1sequencelisting.txt

Pro Gly Leu Gln Ser Pro Leu His Ala Lys Pro Tyr Ile
665 670

<210> 53
<211> 23
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 53
tcttcagccg cttgcgcaac ctc 23

<210> 54
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 54
ttgctcacat ccagctcctg cagg 24

<210> 55
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 55
tggatgttgt ccagacaacc agctggagct gtatccgagg c 41

<210> 56
<211> 3462
<212> DNA
<213> Homo sapiens

<400> 56
gaatcatcca cgcacctgca gctctgctga gagagtgcaa gccgtggggg 50
ttttgagctc atcttcatca ttcataatgag gaaataagtg gtaaaatcct 100
tggaataaca atgagactca tcagaaacat ttacatatatt ttagtagtattg 150
ttatgacagc agaggggtgat gctccagagc tgccagaaga aaggggaactg 200
atgaccaact gctccaacat gtctctaaga aagggttccc cagacttgac 250
cccagccaca acgacactgg atttataccta taacctcctt tttcaactcc 300
agagttcaga ttttcattct gtctccaaac tgagagtttt gattctatgc 350
cataacagaa ttcaacagct ggatctcaaa acctttgaat tcaacaagga 400
gttaagatat ttagatttgt ctaataacag actgaagagt gtaacttggg 450
atttactggc aggtctcagg tatttagatc tttcttttaa tgactttgac 500
accatgccta tctgtgagga agctggcaac atgtcacacc tggaaatcct 550
aggtttgagt ggggcaaaaa tacaaaaatc agatttccag aaaattgctc 600
atctgcatct aaatactgtc ttcttaggat tcagaactct tcctcattat 650

P2730P1sequencelisting.txt

gaagaaggta gcctgcccac cttaaacaca acaaaactgc acattgtttt 700
 accaatggac acaaatttct gggttctttt gcgtgatgga atcaagactt 750
 caaaaatatt agaaatgaca aatatagatg gcaaaagcca atttgtaagt 800
 tatgaaatgc aacgaaatct tagtttagaa aatgctaaga catcggttct 850
 attgcttaat aaagttgatt tactctggga cgaccttttc cttatcttac 900
 aatttgtttg gcatacatca gtggaacact ttcagatccg aaatgtgact 950
 tttggtggta aggcttatct tgaccacaat tcatttgact actcaaatac 1000
 tgtaatgaga actataaaat tggagcatgt acatttcaga gtgttttaca 1050
 ttcaacagga taaaatctat ttgcttttga ccaaaatgga catagaaaac 1100
 ctgacaatat caaatgcaca aatgccacac atgcttttcc cgaattatcc 1150
 tacgaaattc caatatttaa attttgccaa taatatctta acagacgagt 1200
 tgtttaaaag aactatccaa ctgcctcact tgaaaactct cattttgaat 1250
 ggcaataaac tggagacact ttcttttagta agttgctttg ctaacaacac 1300
 acccttgga cacttggaatc tgagtcaaaa tctattacaa cataaaaatg 1350
 atgaaaattg ctcatggcca gaaactgtgg tcaatatgaa tctgtcatac 1400
 aataaattgt ctgattctgt cttcaggtgc ttgccccaaa gtattcaaat 1450
 acttgacctt aataataacc aaatccaaac tgtacctaaa gagactattc 1500
 atctgatggc cttacgagaa ctaaattatt catttaattt tctaactgat 1550
 ctccctggat gcagtcattt cagtagactt tcagttctga acattgaaat 1600
 gaacttcatt ctcagcccat ctctggattt tgttcagagc tgccaggaag 1650
 ttaaaaactct aaatgcggga agaaatccat tccggtgtac ctgtgaatta 1700
 aaaaatttca ttcagcttga aacatattca gaggtcatga tggttggatg 1750
 gtcagattca tacacctgtg aatacccttt aaacctaagg ggaactaggt 1800
 taaaagacgt tcatctccac gaattatctt gcaacacagc tctgttgatt 1850
 gtcaccattg tggttattat gctagttctg gggttggctg tggccttctg 1900
 ctgtctccac tttgatctgc cctggatatc caggatgcta ggtcaatgca 1950
 cacaacatg gcacaggggtt aggaaaacaa cccaagaaca actcaagaga 2000
 aatgtccgat tccacgcatt tatttcatac agtgaacatg attctctgtg 2050
 ggtgaagaat gaattgatcc ccaatctaga gaaggaagat gggtctatct 2100
 tgatttgcct ttatgaaagc tactttgacc ctggcaaaag cattagttaa 2150
 aatattgtaa gcttcattga gaaaagctat aagtccatct ttgttttgtc 2200
 tcccaacttt gtccagaatg agtggtgcca ttatgaattc tactttgccc 2250
 accacaatct cttccatgaa aattctgatc atataattct tatcttactg 2300
 gaaccattc cattctattg cattcccacc aggtatcata aactgaaagc 2350

P2730P1sequencelisting.txt

tctcctggaa aaaaaagcat acttggaatg gcccaaggat aggcgtaaat 2400
 gtgggctttt ctgggcaaac cttcgagctg ctattaatgt taatgtatta 2450
 gccaccagag aaatgtatga actgcagaca ttcacagagt taaatgaaga 2500
 gtctcgaggt tctacaatct ctctgatgag aacagattgt ctataaaatc 2550
 ccacagtcct tgggaagtgt gggaccacat acactgttgg gatgtacatt 2600
 gatacaacct ttatgatggc aatttgacaa tatttattaa aataaaaaat 2650
 ggttattccc ttcatatcag tttctagaag gatttctaag aatgtatcct 2700
 atagaaacac cttcacaaagt ttataagggc ttatggaaaa aggtgttcac 2750
 cccaggattg tttataatca tgaaaaatgt ggccagggtgc agtggctcac 2800
 tcttgtaatc ccagcactat gggaggccaa ggtgggtgac ccacgaggtc 2850
 aagagatgga gaccatcctg gccaacatgg tgaaaccctg tctctactaa 2900
 aaatacaaaa attagctggg cgtgatgggtg cacgcctgta gtcccagcta 2950
 cttgggagggc tgaggcagga gaatcgcttg aaccgaggag gtggcagttg 3000
 cagtgaactg agatcgagcc actgcactcc agcctggtga cagagcgaga 3050
 ctccatctca aaaaaagaa aaaaaaaaaa gaaaaaatg gaaaacatcc 3100
 tcatggccac aaaataaggt ctaattcaat aaattatagt acattaatgt 3150
 aatataatat tacatgccac taaaaagaat aaggtagctg tatatttcct 3200
 ggtatggaaa aaacatatta atatgttata aactattagg ttggtgcaaa 3250
 actaattgtg gtttttgcca ttgaaatggc attgaaataa aagtgtaaag 3300
 aaatctatac cagatgtagt aacagtgggt tgggtctggg aggttggtatt 3350
 acaggagca tttgatttct atgttggtga tttctataat gtttgaattg 3400
 tttagaatga atctgtatct cttttataag tagaaaaaaa ataaagatag 3450
 tttttacagc ct 3462

<210> 57
 <211> 811
 <212> PRT
 <213> Homo sapiens

<400> 57
 Met Arg Leu Ile Arg Asn Ile Tyr Ile Phe Cys Ser Ile Val Met
 1 5 10 15
 Thr Ala Glu Gly Asp Ala Pro Glu Leu Pro Glu Glu Arg Glu Leu
 20 25 30
 Met Thr Asn Cys Ser Asn Met Ser Leu Arg Lys Val Pro Ala Asp
 35 40 45
 Leu Thr Pro Ala Thr Thr Thr Leu Asp Leu Ser Tyr Asn Leu Leu
 50 55 60
 Phe Gln Leu Gln Ser Ser Asp Phe His Ser Val Ser Lys Leu Arg
 65 70 75

P2730P1sequencelisting.txt

Val	Leu	Ile	Leu	Cys	His	Asn	Arg	Ile	Gln	Gln	Leu	Asp	Leu	Lys	80	85	90
Thr	Phe	Glu	Phe	Asn	Lys	Glu	Leu	Arg	Tyr	Leu	Asp	Leu	Ser	Asn	95	100	105
Asn	Arg	Leu	Lys	Ser	Val	Thr	Trp	Tyr	Leu	Leu	Ala	Gly	Leu	Arg	110	115	120
Tyr	Leu	Asp	Leu	Ser	Phe	Asn	Asp	Phe	Asp	Thr	Met	Pro	Ile	Cys	125	130	135
Glu	Glu	Ala	Gly	Asn	Met	Ser	His	Leu	Glu	Ile	Leu	Gly	Leu	Ser	140	145	150
Gly	Ala	Lys	Ile	Gln	Lys	Ser	Asp	Phe	Gln	Lys	Ile	Ala	His	Leu	155	160	165
His	Leu	Asn	Thr	Val	Phe	Leu	Gly	Phe	Arg	Thr	Leu	Pro	His	Tyr	170	175	180
Glu	Glu	Gly	Ser	Leu	Pro	Ile	Leu	Asn	Thr	Thr	Lys	Leu	His	Ile	185	190	195
Val	Leu	Pro	Met	Asp	Thr	Asn	Phe	Trp	Val	Leu	Leu	Arg	Asp	Gly	200	205	210
Ile	Lys	Thr	Ser	Lys	Ile	Leu	Glu	Met	Thr	Asn	Ile	Asp	Gly	Lys	215	220	225
Ser	Gln	Phe	Val	Ser	Tyr	Glu	Met	Gln	Arg	Asn	Leu	Ser	Leu	Glu	230	235	240
Asn	Ala	Lys	Thr	Ser	Val	Leu	Leu	Leu	Asn	Lys	Val	Asp	Leu	Leu	245	250	255
Trp	Asp	Asp	Leu	Phe	Leu	Ile	Leu	Gln	Phe	Val	Trp	His	Thr	Ser	260	265	270
Val	Glu	His	Phe	Gln	Ile	Arg	Asn	Val	Thr	Phe	Gly	Gly	Lys	Ala	275	280	285
Tyr	Leu	Asp	His	Asn	Ser	Phe	Asp	Tyr	Ser	Asn	Thr	Val	Met	Arg	290	295	300
Thr	Ile	Lys	Leu	Glu	His	Val	His	Phe	Arg	Val	Phe	Tyr	Ile	Gln	305	310	315
Gln	Asp	Lys	Ile	Tyr	Leu	Leu	Leu	Thr	Lys	Met	Asp	Ile	Glu	Asn	320	325	330
Leu	Thr	Ile	Ser	Asn	Ala	Gln	Met	Pro	His	Met	Leu	Phe	Pro	Asn	335	340	345
Tyr	Pro	Thr	Lys	Phe	Gln	Tyr	Leu	Asn	Phe	Ala	Asn	Asn	Ile	Leu	350	355	360
Thr	Asp	Glu	Leu	Phe	Lys	Arg	Thr	Ile	Gln	Leu	Pro	His	Leu	Lys	365	370	375
Thr	Leu	Ile	Leu	Asn	Gly	Asn	Lys	Leu	Glu	Thr	Leu	Ser	Leu	Val	380	385	390
Ser	Cys	Phe	Ala	Asn	Asn	Thr	Pro	Leu	Glu	His	Leu	Asp	Leu	Ser	395	400	405
Gln	Asn	Leu	Leu	Gln	His	Lys	Asn	Asp	Glu	Asn	Cys	Ser	Trp	Pro	410	415	420

P2730P1sequencelisting.txt

Glu Thr Val Val	Asn Met Asn Leu Ser	Tyr Asn Lys Leu Ser	Asp
	425	430	435
Ser Val Phe Arg	Cys Leu Pro Lys Ser	Ile Gln Ile Leu Asp	Leu
	440	445	450
Asn Asn Asn Gln	Ile Gln Thr Val Pro	Lys Glu Thr Ile His	Leu
	455	460	465
Met Ala Leu Arg	Glu Leu Asn Ile Ala	Phe Asn Phe Leu Thr	Asp
	470	475	480
Leu Pro Gly Cys	Ser His Phe Ser Arg	Leu Ser Val Leu Asn	Ile
	485	490	495
Glu Met Asn Phe	Ile Leu Ser Pro Ser	Leu Asp Phe Val Gln	Ser
	500	505	510
Cys Gln Glu Val	Lys Thr Leu Asn Ala	Gly Arg Asn Pro Phe	Arg
	515	520	525
Cys Thr Cys Glu	Leu Lys Asn Phe Ile	Gln Leu Glu Thr Tyr	Ser
	530	535	540
Glu Val Met Met	Val Gly Trp Ser Asp	Ser Tyr Thr Cys Glu	Tyr
	545	550	555
Pro Leu Asn Leu	Arg Gly Thr Arg Leu	Lys Asp Val His Leu	His
	560	565	570
Glu Leu Ser Cys	Asn Thr Ala Leu Leu	Ile Val Thr Ile Val	Val
	575	580	585
Ile Met Leu Val	Leu Gly Leu Ala Val	Ala Phe Cys Cys Leu	His
	590	595	600
Phe Asp Leu Pro	Trp Tyr Leu Arg Met	Leu Gly Gln Cys Thr	Gln
	605	610	615
Thr Trp His Arg	Val Arg Lys Thr Thr	Gln Glu Gln Leu Lys	Arg
	620	625	630
Asn Val Arg Phe	His Ala Phe Ile Ser	Tyr Ser Glu His Asp	Ser
	635	640	645
Leu Trp Val Lys	Asn Glu Leu Ile Pro	Asn Leu Glu Lys Glu	Asp
	650	655	660
Gly Ser Ile Leu	Ile Cys Leu Tyr Glu	Ser Tyr Phe Asp Pro	Gly
	665	670	675
Lys Ser Ile Ser	Glu Asn Ile Val Ser	Phe Ile Glu Lys Ser	Tyr
	680	685	690
Lys Ser Ile Phe	Val Leu Ser Pro Asn	Phe Val Gln Asn Glu	Trp
	695	700	705
Cys His Tyr Glu	Phe Tyr Phe Ala His	His Asn Leu Phe His	Glu
	710	715	720
Asn Ser Asp His	Ile Ile Leu Ile Leu	Leu Glu Pro Ile Pro	Phe
	725	730	735
Tyr Cys Ile Pro	Thr Arg Tyr His Lys	Leu Lys Ala Leu Leu	Glu
	740	745	750
Lys Lys Ala Tyr	Leu Glu Trp Pro Lys	Asp Arg Arg Lys Cys	Gly

P2730P1sequencelisting.txt

755

760

765

Leu Phe Trp Ala Asn Leu Arg Ala Ala Ile Asn Val Asn Val Leu
 770 775 780
 Ala Thr Arg Glu Met Tyr Glu Leu Gln Thr Phe Thr Glu Leu Asn
 785 790 795
 Glu Glu Ser Arg Gly Ser Thr Ile Ser Leu Met Arg Thr Asp Cys
 800 805 810
 Leu

<210> 58

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 58

tcccaccagg tatcataaac tgaa 24

<210> 59

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 59

ttatagacaa tctgtttctca tcagaga 27

<210> 60

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 60

aaaaagcata cttggaatgg cccaaggata ggtgtaaatg 40

<210> 61

<211> 3772

<212> DNA

<213> Homo sapiens

<400> 61

gggggctttc ttgggcttgg ctgcttgga cacctgcctc caaggaccgg 50
 cctcggaggg gtcgccggga aagggagggga agaaggaagg gcggggccgg 100
 cccccctgcg cccgccccgc gcctctgcgc gcccctgtcc gccccggccc 150
 agcccagccc agccccgcgg gccggtcaca cgcgcagcca gccggccgcc 200
 tcccgcgccc aagcgcgccc ctctgctgtg ccctgcgccc ttgccccgcg 250
 ccagcttctg cgccccgcgc ccgcccggcg cccccggtga ccgtgaccct 300
 gccctgggcg cggggcgag caggcatgtc ccgcccgggg accgctaccc 350
 cagcgtggc cctggtgctc ctggcagtga ccctggccgg ggtcggagcc 400

P2730P1sequence1isting.txt

cagggcgag ccctcgagga ccctgattat tacgggcagg agatctggag 450
 ccgggagccc tactacgcgc gcccggagcc cgagctcgag accttctctc 500
 cgccgctgcc tgcggggccc ggggaggagt gggagcggcg cccgcaggag 550
 cccaggccgc ccaagagggc caccaagccc aagaaagctc ccaagagggg 600
 gaagtcggct ccggagccgc ctccaccagg taaacacagc aacaaaaaag 650
 ttatgagaac caagagctct gagaaggctg ccaacgatga tcacagtgtc 700
 cgtgtggccc gtgaagatgt cagagagagt tgcccacctc ttggtctgga 750
 aaccttaaaa atcacagact tccagctcca tgcctccacg gtgaagcgct 800
 atggcctggg ggcacatcga gggagactca acatccaggc gggcattaat 850
 gaaaatgatt tttatgacgg agcgtggtgc gcgggaagaa atgacctcca 900
 gcagtggatt gaagtggatg ctcggcgcct gaccagattc actggtgtca 950
 tcactcaagg gaggaactcc ctctggctga gtgactgggt gacatcctat 1000
 aaggtcatgg tgagcaatga cagccacacg tgggtcactg ttaagaatgg 1050
 atctggagac atgatatttg agggaaacag tgagaaggag atccctgttc 1100
 tcaatgagct acccgctccc atggtggccc gctacatccg cataaaccct 1150
 cagtcttgtt ttgataatgg gagcatctgc atgagaatgg agatcctggg 1200
 ctgcccactg ccagatccta ataattatta tcaccgccgg aacgagatga 1250
 ccaccactga tgacctggat ttttaagcacc acaattataa ggaaatgcgc 1300
 cagttgatga aagttgtgaa tgaaatgtgt cccaatatca ccagaattta 1350
 caacattgga aaaagccacc agggcctgaa gctgtatgct gtggagatct 1400
 cagatcaccc tggggagcat gaagtcggtg agcccagatt ccactacatc 1450
 gcggggggccc acggcaatga ggtgctgggc cgggagctgc tgctgctgct 1500
 ggtgcagttc gtgtgtcagg agtacttggc ccggaatgcg cgcacgtcc 1550
 acctggtgga ggagacgcgg attcacgtcc tcccctccct caaccccgat 1600
 ggctacgaga aggcctacga agggggctcg gagctgggag gctggtccct 1650
 gggacgctgg acccacgatg gaattgacat caacaacaac tttcctgatt 1700
 taaacacgct gctctgggag gcagaggatc gacagaatgt cccagggaaa 1750
 gttcccaatc actatattgc aatccctgag tggtttctgt cggaatatgc 1800
 cacggtggct gccgagacca gagcagtcac agcctggatg gaaaaaatcc 1850
 cttttgtgct gggcggcaac ctgcagggcg gcgagctggt ggtggcgat 1900
 ccctacgacc tggcgcggc cccctggaag acgcaggaac acacccccac 1950
 ccccgatgac cacgtgttcc gctggctggc ctactcctat gcctccacac 2000
 accgcctcat gacagacgcc cggaggaggg tgtgccacac ggaggacttc 2050
 cagaaggagg agggcactgt caatggggcc tcctggcaca ccgtcgctgg 2100

P2730P1sequencelisting.txt

aagtctgaac gatttcagct accttcatac aaactgcttc gaactgtcca 2150
tctacgtggg ctgtgataaa taccacatg agagccagct gcccgaggag 2200
tgggagaata accggaatc tctgatcgtg ttcattggagc aggttcatcg 2250
tggcattaaa ggcttgggtga gagattcaca tggaaaagga atcccaaacg 2300
ccattatctc cgtagaaggc attaaccatg acatccgaac agccaacgat 2350
ggggattact ggcgcctcct gaaccctgga gagtatgtgg tcacagcaaa 2400
ggccgaaggt ttcactgcat ccaccaagaa ctgtatgggt ggctatgaca 2450
tggggggccac aaggtgtgac ttcacactta gcaaaaccaa catggccagg 2500
atccgagaga tcatggagaa gtttgggaag cagcccgtca gcctgccagc 2550
caggcggtcg aagctgcggg ggcggaagag acgacagcgt gggtgaccct 2600
cctgggccct tgagactcgt ctgggacca tgcaaattaa accaacctgg 2650
tagtagctcc atagtggact cactcactgt tgtttcctct gtaattcaag 2700
aagtgcctgg aagagagggg gcattgtgag gcagggtcca aaaggaagg 2750
ctggaggctg aggctgtttt cttttctttg ttcccattta tccaaataac 2800
ttggacagag cagcagagaa aagctgatgg gagtgagaga actcagcaag 2850
ccaacctggg aatcagagag agaaggagaa ggaggggagc ctgtccgttc 2900
agagcctctg gctgcataga aaaggattct ggtgcttccc ctgtttgct 2950
ggcagcaagg gttccacgtg catttgcaat ttgcacagct aaaattgcag 3000
catttcccca gctgggctgt cccaaatgtt accatttgag atgctccag 3050
gcgtcctaag agaatccacc ctctctggcc ctgggacatt gcaagctgct 3100
acaaataaat tctgtgttct ttgacaata gcgtcattgc caagtgcaca 3150
tcagtgagcc tcttgaatct gtttagtctc ctttttcaac aaaggagtgt 3200
gttcagaaaa ggagagagag gctgagatca ttcaggagt ttgtgggcag 3250
caagcatgga gcttcttgca caaattctgg gtccataaac aacccccaaa 3300
gtccctgctg atccagtagc cctggagggt cccaggtag ggagagccag 3350
aggtgccagc cttcctgaag ggccagaaaa tttagcctgg atctcctctt 3400
ttacctgcta ggactggaaa gagccagaag tggggtggcc tgaagccctc 3450
tctctgcttg aggtattgcc cctgtgtgga attgagtgt catgggttg 3500
cctcatatca gcctgggagt tattttggat atgtagaatg ccagatcttc 3550
cagattaggc taaatgtaat gaaaacctt taggattatc tgtggagcat 3600
cagtttgga agaattattg aattatcttg caagaaaaaa gtatgtctca 3650
ctttttgta atgttgctgc ctcatgacc tgggaaaaat gaaaaaaaaa 3700
aataaagcaa atggtagac ccttaaaaaa aaaaaaaaaa aaaaaaaaaa 3750
aaaaaaaaaa aaaaaaaaaa aa 3772

P2730P1sequencelisting.txt

<210> 62
 <211> 756
 <212> PRT
 <213> Homo sapiens

<400> 62
 Met Ser Arg Pro Gly Thr Ala Thr Pro Ala Leu Ala Leu Val Leu
 1 5 10 15
 Leu Ala Val Thr Leu Ala Gly Val Gly Ala Gln Gly Ala Ala Leu
 20 25 30
 Glu Asp Pro Asp Tyr Tyr Gly Gln Glu Ile Trp Ser Arg Glu Pro
 35 40 45
 Tyr Tyr Ala Arg Pro Glu Pro Glu Leu Glu Thr Phe Ser Pro Pro
 50 55 60
 Leu Pro Ala Gly Pro Gly Glu Glu Trp Glu Arg Arg Pro Gln Glu
 65 70 75
 Pro Arg Pro Pro Lys Arg Ala Thr Lys Pro Lys Lys Ala Pro Lys
 80 85 90
 Arg Glu Lys Ser Ala Pro Glu Pro Pro Pro Gly Lys His Ser
 95 100 105
 Asn Lys Lys Val Met Arg Thr Lys Ser Ser Glu Lys Ala Ala Asn
 110 115 120
 Asp Asp His Ser Val Arg Val Ala Arg Glu Asp Val Arg Glu Ser
 125 130 135
 Cys Pro Pro Leu Gly Leu Glu Thr Leu Lys Ile Thr Asp Phe Gln
 140 145 150
 Leu His Ala Ser Thr Val Lys Arg Tyr Gly Leu Gly Ala His Arg
 155 160 165
 Gly Arg Leu Asn Ile Gln Ala Gly Ile Asn Glu Asn Asp Phe Tyr
 170 175 180
 Asp Gly Ala Trp Cys Ala Gly Arg Asn Asp Leu Gln Gln Trp Ile
 185 190 195
 Glu Val Asp Ala Arg Arg Leu Thr Arg Phe Thr Gly Val Ile Thr
 200 205 210
 Gln Gly Arg Asn Ser Leu Trp Leu Ser Asp Trp Val Thr Ser Tyr
 215 220 225
 Lys Val Met Val Ser Asn Asp Ser His Thr Trp Val Thr Val Lys
 230 235 240
 Asn Gly Ser Gly Asp Met Ile Phe Glu Gly Asn Ser Glu Lys Glu
 245 250 255
 Ile Pro Val Leu Asn Glu Leu Pro Val Pro Met Val Ala Arg Tyr
 260 265 270
 Ile Arg Ile Asn Pro Gln Ser Trp Phe Asp Asn Gly Ser Ile Cys
 275 280 285
 Met Arg Met Glu Ile Leu Gly Cys Pro Leu Pro Asp Pro Asn Asn
 290 295 300
 Tyr Tyr His Arg Arg Asn Glu Met Thr Thr Thr Asp Asp Leu Asp
 Page 60

P2730P1sequencelisting.txt

	305		310		315
Phe Lys His His	Asn 320	Tyr Lys Glu Met	Arg 325	Gln Leu Met Lys	Val 330
Val Asn Glu Met	Cys 335	Pro Asn Ile Thr	Arg 340	Ile Tyr Asn Ile	Gly 345
Lys Ser His Gln	Gly 350	Leu Lys Leu Tyr	Ala 355	Val Glu Ile Ser	Asp 360
His Pro Gly Glu	His 365	Glu Val Gly Glu	Pro 370	Glu Phe His Tyr	Ile 375
Ala Gly Ala His	Gly 380	Asn Glu Val Leu	Gly 385	Arg Glu Leu Leu	Leu 390
Leu Leu Val Gln	Phe 395	Val Cys Gln Glu	Tyr 400	Leu Ala Arg Asn	Ala 405
Arg Ile Val His	Leu 410	Val Glu Glu Thr	Arg 415	Ile His Val Leu	Pro 420
Ser Leu Asn Pro	Asp 425	Gly Tyr Glu Lys	Ala 430	Tyr Glu Gly Gly	Ser 435
Glu Leu Gly Gly	Trp 440	Ser Leu Gly Arg	Trp 445	Thr His Asp Gly	Ile 450
Asp Ile Asn Asn	Asn 455	Phe Pro Asp Leu	Asn 460	Thr Leu Leu Trp	Glu 465
Ala Glu Asp Arg	Gln 470	Asn Val Pro Arg	Lys 475	Val Pro Asn His	Tyr 480
Ile Ala Ile Pro	Glu 485	Trp Phe Leu Ser	Glu 490	Asn Ala Thr Val	Ala 495
Ala Glu Thr Arg	Ala 500	Val Ile Ala Trp	Met 505	Glu Lys Ile Pro	Phe 510
Val Leu Gly Gly	Asn 515	Leu Gln Gly Gly	Glu 520	Leu Val Val Ala	Tyr 525
Pro Tyr Asp Leu	Val 530	Arg Ser Pro Trp	Lys 535	Thr Gln Glu His	Thr 540
Pro Thr Pro Asp	Asp 545	His Val Phe Arg	Trp 550	Leu Ala Tyr Ser	Tyr 555
Ala Ser Thr His	Arg 560	Leu Met Thr Asp	Ala 565	Arg Arg Arg Val	Cys 570
His Thr Glu Asp	Phe 575	Gln Lys Glu Glu	Gly 580	Thr Val Asn Gly	Ala 585
Ser Trp His Thr	Val 590	Ala Gly Ser Leu	Asn 595	Asp Phe Ser Tyr	Leu 600
His Thr Asn Cys	Phe 605	Glu Leu Ser Ile	Tyr 610	Val Gly Cys Asp	Lys 615
Tyr Pro His Glu	Ser 620	Gln Leu Pro Glu	Glu 625	Trp Glu Asn Asn	Arg 630
Glu Ser Leu Ile	Val 635	Phe Met Glu Gln	Val 640	His Arg Gly Ile	Lys 645

P2730P1sequencelisting.txt

Gly Leu Val Arg Asp Ser His Gly Lys Gly Ile Pro Asn Ala Ile
650 655 660
Ile Ser Val Glu Gly Ile Asn His Asp Ile Arg Thr Ala Asn Asp
665 670 675
Gly Asp Tyr Trp Arg Leu Leu Asn Pro Gly Glu Tyr Val Val Thr
680 685 690
Ala Lys Ala Glu Gly Phe Thr Ala Ser Thr Lys Asn Cys Met Val
695 700 705
Gly Tyr Asp Met Gly Ala Thr Arg Cys Asp Phe Thr Leu Ser Lys
710 715 720
Thr Asn Met Ala Arg Ile Arg Glu Ile Met Glu Lys Phe Gly Lys
725 730 735
Gln Pro Val Ser Leu Pro Ala Arg Arg Leu Lys Leu Arg Gly Arg
740 745 750
Lys Arg Arg Gln Arg Gly
755

<210> 63
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 63
gttctcaatg agctacccgt cccc 24

<210> 64
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> synthetic oligonucleotide probe

<400> 64
cgcgatgtag tggaactcgg gctc 24

<210> 65
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 65
atccgcataa accctcagtc ctggtttgat aatgggagca tctgcatgag 50

<210> 66
<211> 2854
<212> DNA
<213> Homo sapiens

<400> 66
ctaagaggac aagatgaggc ccggcctctc atttctccta gcccttctgt 50
tcttccttgg ccaagctgca ggggatttgg gggatgtggg acctccaatt 100
cccagccccg gcttcagctc tttcccaggt gttgactcca gctccagctt 150
Page 62

P2730P1sequencelisting.txt

cagctccagc tccaggtcgg gctccagctc cagccgcagc ttaggcagcg 200
 gaggttctgt gtcccagttg ttttccaatt tcaccggctc cgtggatgac 250
 cgtgggacct gccagtgtc tgtttccctg ccagacacca cttttcccg 300
 ggacagagtg gaacgcttgg aattcacagc tcatgttctt tctcagaagt 350
 ttgagaaaga acttttctaaa gtgagggaat atgtccaatt aattagtgtg 400
 tatgaaaaga aactgttaaa cctaactgtc cgaattgaca tcatggagaa 450
 ggataccatt tcttacctg aactggactt cgagctgac aaggtagaag 500
 tgaaggagat ggaaaaactg gtcatacagc tgaaggagag ttttggtgga 550
 agctcagaaa ttgttgacca gctggagggtg gagataagaa atatgactct 600
 cttggtagag aagcttgaga cactagacaa aaacaatgtc cttgccattc 650
 gccgagaaat cgtggctctg aagaccaagc tgaaagagtg tgaggcctct 700
 aaagatcaaa acaccctgt cgtccaccct cctcccactc cagggagctg 750
 tgggtcatggt ggtgtggtga acatcagcaa accgtctgtg gttcagctca 800
 actggagagg gttttcttat ctatatggtg cttggggtag ggattactct 850
 cccagcatc caaacaaggg actgtattgg gtggcgccat tgaatacaga 900
 tgggagactg ttggagtatt atagactgta caacacactg gatgatttgc 950
 tattgtatat aaatgctcga gagtgcgga tcacctatgg ccaaggtagt 1000
 ggtacagcag tttaacaaca caacatgtac gtcaacatgt acaacaccgg 1050
 gaatattgcc agagttaacc tgaccaccaa cacgattgct gtgactcaaa 1100
 ctctccctaa tgctgcctat aataaccgct tttcatatgc taatgttgct 1150
 tggcaagata ttgactttgc tgtggatgag aatggattgt gggttattta 1200
 ttcaactgaa gccagcactg gtaacatggt gattagtaaa ctcaatgaca 1250
 ccacacttca ggtgctaaac acttgggtata ccaagcagta taaaccatct 1300
 gcttctaacg ctttcatggt atgtgggggt ctgtatgcca cccgtactat 1350
 gaacaccaga acagaagaga ttttttacta ttatgacaca aacacaggga 1400
 aagagggcaa actagacatt gtaatgcata agatgcagga aaaagtgcag 1450
 agcattaact ataacccttt tgaccagaaa ctttatgtct ataacgatgg 1500
 ttaccttctg aattatgatc tttctgtctt gcagaagccc cagtaagctg 1550
 tttaggagtt aggggtgaaag agaaaatggt tgttgaaaaa atagtcttct 1600
 ccacttactt agatatctgc aggggtgtct aaaagtgtgt tcattttgca 1650
 gcaatgttta ggtgcatagt tctaccacac tagagatcta ggacatttgt 1700
 cttgatttgg tgagttctct tgggaatcat ctgcctcttc aggcgcattt 1750
 tgcaataaag tctgtctagg gtgggattgt cagaggtcta ggggcactgt 1800
 gggcctagtg aagcctactg tgaggaggct tcactagaag ccttaaatta 1850

P2730P1sequencelisting.txt

ggaattaagg aacttaaaac tcagtatggc gtctagggat tctttgtaca 1900
 ggaaatattg cccaatgact agtcctcatc catgtagcac cactaattct 1950
 tccatgcctg gaagaaacct ggggacttag ttaggtagat taatatctgg 2000
 agctcctcga gggaccaaact ctccaacttt tttttcccct cactagcacc 2050
 tggaatgatg ctttgtatgt ggcagataag taaatttggc atgcttatat 2100
 attctacatc tgtaaagtgc tgagttttat ggagagaggc ctttttatgc 2150
 attaaattgt acatggcaaa taaatcccag aaggatctgt agatgaggca 2200
 cctgcttttt cttttctctc attgtccacc ttactaaaag tcagtagaat 2250
 cttctacctc ataacttcct tccaaaggca gctcagaaga ttagaaccag 2300
 acttactaac caattccacc cccaccaaac ccccttctac tgcctacttt 2350
 aaaaaaatta atagttttct atggaactga tctaagatta gaaaaattaa 2400
 ttttctttta tttcattatg gactttttatt tacatgactc taagactata 2450
 agaaaatctg atggcagtga caaagtgcta gcattttattg ttatctaata 2500
 aagaccttgg agcatatgtg caacttatga gtgtatcagt tgttgcatgt 2550
 aatttttgcc tttgtttaag cctggaactt gtaagaaaat gaaaatttaa 2600
 tttttttttc taggacgagc tatagaaaag ctattgagag tatctagtta 2650
 atcagtgcag tagttggaaa ccttgctggt gtatgtgatg tgcttctgtg 2700
 cttttgaatg actttatcat ctagtctttg tctatttttc ctttgatggt 2750
 caagtcctag tctataggat tggcagttta aatgctttac tccccctttt 2800
 aaaataaatg attaaaatgt gctttgaaaa aaaaaaaaaa aaaaaaaaaa 2850
 aaaa 2854

<210> 67
 <211> 510
 <212> PRT
 <213> Homo sapiens

<400> 67
 Met Arg Pro Gly Leu Ser Phe Leu Leu Ala Leu Leu Phe Phe Leu
 1 5 10 15
 Gly Gln Ala Ala Gly Asp Leu Gly Asp Val Gly Pro Pro Ile Pro
 20 25 30
 Ser Pro Gly Phe Ser Ser Phe Pro Gly Val Asp Ser Ser Ser Ser
 35 40 45
 Phe Ser Ser Ser Ser Arg Ser Gly Ser Ser Ser Ser Arg Ser Leu
 50 55 60
 Gly Ser Gly Gly Ser Val Ser Gln Leu Phe Ser Asn Phe Thr Gly
 65 70 75
 Ser Val Asp Asp Arg Gly Thr Cys Gln Cys Ser Val Ser Leu Pro
 80 85 90
 Asp Thr Thr Phe Pro Val Asp Arg Val Glu Arg Leu Glu Phe Thr
 Page 64

P2730P1sequencelisting.txt

	95	100	105
Ala His Val Leu	Ser 110	Gln Lys Phe Glu Lys 115	Glu Leu Ser Lys Val 120
Arg Glu Tyr Val	Gln 125	Leu Ile Ser Val Tyr 130	Glu Lys Lys Leu Leu 135
Asn Leu Thr Val	Arg 140	Ile Asp Ile Met Glu 145	Lys Asp Thr Ile Ser 150
Tyr Thr Glu Leu	Asp 155	Phe Glu Leu Ile Lys 160	Val Glu Val Lys Glu 165
Met Glu Lys Leu	Val 170	Ile Gln Leu Lys Glu 175	Ser Phe Gly Gly Ser 180
Ser Glu Ile Val	Asp 185	Gln Leu Glu Val Glu 190	Ile Arg Asn Met Thr 195
Leu Leu Val Glu	Lys 200	Leu Glu Thr Leu Asp 205	Lys Asn Asn Val Leu 210
Ala Ile Arg Arg	Glu 215	Ile Val Ala Leu Lys 220	Thr Lys Leu Lys Glu 225
Cys Glu Ala Ser	Lys 230	Asp Gln Asn Thr Pro 235	Val Val His Pro Pro 240
Pro Thr Pro Gly	Ser 245	Cys Gly His Gly Gly 250	Val Val Asn Ile Ser 255
Lys Pro Ser Val	Val 260	Gln Leu Asn Trp Arg 265	Gly Phe Ser Tyr Leu 270
Tyr Gly Ala Trp	Gly 275	Arg Asp Tyr Ser Pro 280	Gln His Pro Asn Lys 285
Gly Leu Tyr Trp	Val 290	Ala Pro Leu Asn Thr 295	Asp Gly Arg Leu Leu 300
Glu Tyr Tyr Arg	Leu 305	Tyr Asn Thr Leu Asp 310	Asp Leu Leu Leu Tyr 315
Ile Asn Ala Arg	Glu 320	Leu Arg Ile Thr Tyr 325	Gly Gln Gly Ser Gly 330
Thr Ala Val Tyr	Asn 335	Asn Asn Met Tyr Val 340	Asn Met Tyr Asn Thr 345
Gly Asn Ile Ala	Arg 350	Val Asn Leu Thr Thr 355	Asn Thr Ile Ala Val 360
Thr Gln Thr Leu	Pro 365	Asn Ala Ala Tyr Asn 370	Asn Arg Phe Ser Tyr 375
Ala Asn Val Ala	Trp 380	Gln Asp Ile Asp Phe 385	Ala Val Asp Glu Asn 390
Gly Leu Trp Val	Ile 395	Tyr Ser Thr Glu Ala 400	Ser Thr Gly Asn Met 405
Val Ile Ser Lys	Leu 410	Asn Asp Thr Thr Leu 415	Gln Val Leu Asn Thr 420
Trp Tyr Thr Lys	Gln 425	Tyr Lys Pro Ser Ala 430	Ser Asn Ala Phe Met 435

P2730P1sequencelisting.txt

Val	Cys	Gly	Val	Leu	Tyr	Ala	Thr	Arg	Thr	Met	Asn	Thr	Arg	Thr
				440					445					450
Glu	Glu	Ile	Phe	Tyr	Tyr	Tyr	Asp	Thr	Asn	Thr	Gly	Lys	Glu	Gly
				455					460					465
Lys	Leu	Asp	Ile	Val	Met	His	Lys	Met	Gln	Glu	Lys	Val	Gln	Ser
				470					475					480
Ile	Asn	Tyr	Asn	Pro	Phe	Asp	Gln	Lys	Leu	Tyr	Val	Tyr	Asn	Asp
				485					490					495
Gly	Tyr	Leu	Leu	Asn	Tyr	Asp	Leu	Ser	Val	Leu	Gln	Lys	Pro	Gln
				500					505					510

<210> 68
 <211> 410
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 206, 217, 387
 <223> unknown base

<400> 68
 gctctgaaga ccaagctgaa agagtgtgag gcctctaaag atcaaacacc 50
 cctgtcgtcc accctcctcc cactccaggg agctgtggtc atggtggtgt 100
 ggtgaacatc agcaaaccgt ctgtggttca gctcaactgg agaggggttt 150
 cttatctata tgggtgcttgg ggtagggatt actctcccca gcatccaaac 200
 aaaggnatgt attggngggc gccattgaat acagatggga gactgttgga 250
 gtattataga ctgtacaacc cactggatga tttgctattg tatataaatg 300
 ctcgagagtt gcggatcacc tatggccaag gtagtgggtac agcagtttac 350
 aacaacaaca tgtacgtcaa catgtacaac accgggnata ttgccagagt 400
 taacctgacc 410

<210> 69
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 69
 agctgtggtc atggtggtgt ggtg 24

<210> 70
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 70
 ctaccttggc cataggtgat ccgc 24

<210> 71
 <211> 42

P2730P1sequencelisting.txt

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 71

catcagcaaa ccgtctgtgg ttcagctcaa ctggagaggg tt 42

<210> 72

<211> 3127

<212> DNA

<213> Homo sapiens

<400> 72

tctcgcagat agtaaataat ctcggaaagg cgagaaagaa gctgtctcca 50
tcttgtctgt atccgctgct cttgtgacgt tgtggagatg gggagcgtcc 100
tggggctgtg ctccatggcg agctggatac catgtttgtg tggaagtgcc 150
ccgtgtttgc tatgccgatg ctgtcctagt ggaaacaact ccaactgtaac 200
tagattgatc tatgcacttt tcttgcctgt tggagtatgt gtagcttgtg 250
taatgttgat accaggaatg gaagaacaac tgaataagat tcctggattt 300
tgtgagaatg agaaagggtg tgtcccttgt aacattttgg ttggctataa 350
agctgtatat cgtttgtgct ttggtttggc tatgttctat cttcttctct 400
ctttactaat gatcaaagtg aagagtagca gtgacccatg agctgcagtg 450
cacaatggat tttggttctt taaatttgcg gcagcaattg caattattat 500
tggggcattc ttcattccag aaggaaactt tacaactgtg tggttttatg 550
taggcattggc aggtgccttt tgtttcatcc tcatacaact agtcttactt 600
attgattttg cacattcatg gaatgaatcg tgggttgaaa aaatggaaga 650
agggaaactc agatgttggg atgcagcctt gttatcagct acagctctga 700
attatctgct gtcttttagt gctatcgtcc tgttctttgt ctactacact 750
catccagcca gttgttcaga aaacaaggcg ttcatcagtg tcaacatgct 800
cctctgcgtt ggtgcttctg taatgtctat actgccaaaa atccaagaat 850
cacaaccaag atctggtttg ttacagtctt cagtaattac agtctacaca 900
atgtatttga catggtcagc tatgaccaat gaaccagaaa caaattgcaa 950
cccaagtcta ctaagcataa ttggctacaa tacaacaagc actgtcccaa 1000
aggaagggca gtcagtccag tgggtggcatg ctcaaggaat tataggacta 1050
attctctttt tgttgtgtgt attttattcc agcatccgta cttcaaaca 1100
tagtcagggt aataaactga ctctaacaag tgatgaatct acattaatag 1150
aagatggtgg agctagaagt gatggatcac tggaggatgg ggacgatgtt 1200
caccgagctg tagataatga aagggatggg gtcacttaca gttattcctt 1250
ctttcacttc atgcttttcc tggcttact ttatatcatg atgaccctta 1300
ccaactggtc caggtatgaa ccctctcgtg agatgaaaag tcagtggaca 1350

P2730P1sequencelisting.txt

gctgtctggg tgaaaatctc ttccagttgg attggcatcg tgctgtatgt 1400
 ttggacactc gtggcaccac ttgttcttac aaatcgtgat tttgactgag 1450
 tgagacttct agcatgaaag tcccactttg attattgctt atttgaaaac 1500
 agtattccca acttttgtaa agttgtgtat gtttttgctt cccatgtaac 1550
 ttctccagtg ttctggcatg aattagattt tactgcttgt cattttgtta 1600
 ttttcttacc aagtgcattg atatgtgaag tagaatgaat tgcagaggaa 1650
 agttttatga atatggtgat gagttagtaa aagtggccat tattgggctt 1700
 attctctgct ctatagttgt gaaatgaaga gtaaaaacaa atttgtttga 1750
 ctattttaaa attatattag accttaagct gtttttagcaa gcattaaagc 1800
 aaatgtatgg ctgccttttg aaatatttga tgtgttgctt ggcaggatac 1850
 tgcaaagaac atgggtttatt ttaaaattta taaacaagtc acttaaagtc 1900
 cagttgtctg aaaaatctta taagggtttta cccttgatac ggaatttaca 1950
 caggtaggga gtgttttagtg gacaatagtg taggttatgg atggaggtgt 2000
 cggtactaaa ttgaataacg agtaaataat cttacttggg tagagatggc 2050
 ctttgccaac aaagtgaact gttttggttg ttttaaactc atgaagtatg 2100
 ggttcagtgg aaatgtttgg aactctgaag gatttagaca aggttttgaa 2150
 aaggataatc atgggttaga aggaagtgtt ttgaaagtca ctttgaaagt 2200
 tagttttggg cccagcacgg tagctcacc ttggtaatcc cagcactttg 2250
 ggagcttaag tgggtagatt acttgagccc aggaattcag accagcttgg 2300
 cacatggtga acctgttcta taaaaataat ctggctttga gcatatgcct 2350
 gtggtccagc actgagaggc tagtgaagat tgctgagccc agagccaaag 2400
 gttgcagtga gcaagtcacg tctctgcact ctactggca cagagtaagc 2450
 caaaaaata tatatatatt gaaatcaagg aggcaaaatt ttgacaggga 2500
 aggaagtaac tgcaaaacca ctaggcttta gtaggtactt atataaaatc 2550
 tagtccagtt ctctcattta aaaaaatgaa gacactgaaa tacagactta 2600
 aatagctcag atagctaatt aggaaatttc aagttggcca ataatagcat 2650
 tctctctgac atttaaaaat aatttctatt caaaatacat gcatattgat 2700
 ttacacctca tactgtgata attaatgtga tgtggattgc tgggtgccag 2750
 catgacccat aaacagggtca gaagaatgat ggaatgtttt agaataaact 2800
 cctgcttata gtatactaca cagttcaaaa gatgtttaaa atgcttttgt 2850
 atttactgcc atgtaattga aatatataga ttattgtaac ctttcaacct 2900
 gaaaatcaag cagtatgaga gtttagttat ttgtatgtgt cactagtgtc 2950
 taatgaagct tttaaaatct acaatttctt ctttaaaaat atttattaat 3000
 gtgaatggaa tataacaatt cagcttaatt ccccaacctt attctgtgtg 3050

P2730P1sequencelisting.txt

tagacattgt attccacaat tttgaatggc tgtgttttac ctctaaataa 3100
atgaattcag agaaaaaaaa aaaaaaa 3127

<210> 73
<211> 453
<212> PRT
<213> Homo sapiens

<400> 73
Met Gly Ser val Leu Gly Leu Cys Ser Met Ala Ser Trp Ile Pro
1 5 10 15
Cys Leu Cys Gly Ser Ala Pro Cys Leu Leu Cys Arg Cys Cys Pro
20 25 30
Ser Gly Asn Asn Ser Thr val Thr Arg Leu Ile Tyr Ala Leu Phe
35 40 45
Leu Leu val Gly val Cys val Ala Cys val Met Leu Ile Pro Gly
50 55 60
Met Glu Glu Gln Leu Asn Lys Ile Pro Gly Phe Cys Glu Asn Glu
65 70 75
Lys Gly val val Pro Cys Asn Ile Leu val Gly Tyr Lys Ala val
80 85 90
Tyr Arg Leu Cys Phe Gly Leu Ala Met Phe Tyr Leu Leu Leu Ser
95 100 105
Leu Leu Met Ile Lys val Lys Ser Ser Ser Asp Pro Arg Ala Ala
110 115 120
val His Asn Gly Phe Trp Phe Phe Lys Phe Ala Ala Ala Ile Ala
125 130 135
Ile Ile Ile Gly Ala Phe Phe Ile Pro Glu Gly Thr Phe Thr Thr
140 145 150
val Trp Phe Tyr val Gly Met Ala Gly Ala Phe Cys Phe Ile Leu
155 160 165
Ile Gln Leu val Leu Leu Ile Asp Phe Ala His Ser Trp Asn Glu
170 175 180
Ser Trp val Glu Lys Met Glu Glu Gly Asn Ser Arg Cys Trp Tyr
185 190 195
Ala Ala Leu Leu Ser Ala Thr Ala Leu Asn Tyr Leu Leu Ser Leu
200 205 210
val Ala Ile val Leu Phe Phe val Tyr Tyr Thr His Pro Ala Ser
215 220 225
Cys Ser Glu Asn Lys Ala Phe Ile Ser val Asn Met Leu Leu Cys
230 235 240
val Gly Ala Ser val Met Ser Ile Leu Pro Lys Ile Gln Glu Ser
245 250 255
Gln Pro Arg Ser Gly Leu Leu Gln Ser Ser val Ile Thr val Tyr
260 265 270
Thr Met Tyr Leu Thr Trp Ser Ala Met Thr Asn Glu Pro Glu Thr
275 280 285

P2730P1sequencelisting.txt

Asn	Cys	Asn	Pro	Ser	Leu	Leu	Ser	Ile	Ile	Gly	Tyr	Asn	Thr	Thr
				290					295					300
Ser	Thr	Val	Pro	Lys	Glu	Gly	Gln	Ser	Val	Gln	Trp	Trp	His	Ala
				305					310					315
Gln	Gly	Ile	Ile	Gly	Leu	Ile	Leu	Phe	Leu	Leu	Cys	Val	Phe	Tyr
				320					325					330
Ser	Ser	Ile	Arg	Thr	Ser	Asn	Asn	Ser	Gln	Val	Asn	Lys	Leu	Thr
				335					340					345
Leu	Thr	Ser	Asp	Glu	Ser	Thr	Leu	Ile	Glu	Asp	Gly	Gly	Ala	Arg
				350					355					360
Ser	Asp	Gly	Ser	Leu	Glu	Asp	Gly	Asp	Asp	Val	His	Arg	Ala	Val
				365					370					375
Asp	Asn	Glu	Arg	Asp	Gly	Val	Thr	Tyr	Ser	Tyr	Ser	Phe	Phe	His
				380					385					390
Phe	Met	Leu	Phe	Leu	Ala	Ser	Leu	Tyr	Ile	Met	Met	Thr	Leu	Thr
				395					400					405
Asn	Trp	Ser	Arg	Tyr	Glu	Pro	Ser	Arg	Glu	Met	Lys	Ser	Gln	Trp
				410					415					420
Thr	Ala	Val	Trp	Val	Lys	Ile	Ser	Ser	Ser	Trp	Ile	Gly	Ile	Val
				425					430					435
Leu	Tyr	Val	Trp	Thr	Leu	Val	Ala	Pro	Leu	Val	Leu	Thr	Asn	Arg
				440					445					450

Asp Phe Asp

<210> 74
 <211> 480
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 48, 163
 <223> unknown base

<400> 74
 gcgagaaaga agctgtctcc atcttgtctg tatcccgtcg cttcttgnga 50
 cgttgtggag atggggagcg tccctggggc tgtgctccat ggcgagctgg 100
 ataccatgtt tgtgtggaag tgccccgtgt ttgctatgcc gatgctgtcc 150
 tagtggaaac aantccactg taactagatt gatctatgca cttttcttgc 200
 ttgttggagt atgtgtagct tgtgtaatgt tgataccagg aatggaagaa 250
 caactgaata agattcctgg attttgtgag aatgagaaag gtgttgtccc 300
 ttgtaacatt ttggttggct ataaagctgt atatcgtttg tgctttgggt 350
 tggctatgtt ctatcttctt ctctctttac taatgatcaa agtgaagagt 400
 agcagtgatc ctagagctgc agtgcacaat ggattttggt tctttaaatt 450
 tgctgcagca attgcaatta ttattggggc 480

<210> 75

P2730P1sequencelisting.txt

<211> 438
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 32, 65, 92, 121, 142, 154, 170, 293, 315, 323
<223> unknown base

<400> 75
gttattgtga actttgtgga gatgggaggt cntggggctg tgttccatgg 50
cgagctggat accangtttg tgtggaagtg ccccggtgtt gntatgccga 100
tgctgtccta gtggaaacaa ntccactgta attagattga tntatgcact 150
ttntttgctt gttggagtan gtgtagcttg tgtaatgttg ataccaggaa 200
tggaagaaca actgaataag attcctggat tttgtgagaa tgagaaagg 250
gttgtccctt gtaacatttt ggttggtat aaagctgtat atngtttgtg 300
ctttggtttg gctangttct atnttcttct ctctttacta atgatcaaag 350
tgaagagtag cagtgtcct agagctgcag tgcacaatgg attttggttt 400
tttaaatttg ctgcagcaat tgcaattatt attggggc 438

<210> 76
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 48
<223> unknown base

<400> 76
aagaagctgt ctccatcttg tctgtatccg ctgctcttgt gaacgttntg 50
gagatgggga gcgtccttgg ggttgtgctc catggcgagc tggataccat 100
gtttgtgtgg aagtgccccg tgtttgctat gccgatgctg tcctagtgg 150
aacaactcca ctgtaactag attgatctat gcacttttct tgcttggttg 200
agtatgtgta gcitgtgtaa tgttgatacc aggaatggaa gaacaactga 250
ataagattcc tggattttgt gagaatgaga aagggtgttg cccttgtaac 300
attttggttg gctataaagc tgtatatcgt ttgtgctttg gtttggtat 350
gttctatctt cttctctctt tactaatgat caaagtgaag agtagcagt 400
atcctagagc tgcagtgcac aatggatttt ggttctttta atttgctgca 450
gcaattgcaa ttattatttg ggc 473

<210> 77
<211> 666
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 21, 111
<223> unknown base

P2730P1sequencelisting.txt

<400> 77
 gctgtcctta gtggaacaa ntccaacttg taacttggat tgatctatgc 50
 actttttcct tgcttggttg agtatgtgta gctttgtgta atgttggtcc 100
 caggattgga ngaacaactg aataagattc ctggattttt gtgagaatga 150
 gaaaggtggt gtccccttgt aacatttttg gttggctata aagctgtata 200
 tcgtttgtgc tttggttttg ctatgttcta tcttcttctc tctttactaa 250
 tgatcaaagt gaagagtagc agtgatccta gagctgcagt gcacaatgga 300
 ttttggttct ttaaatttgc tgcagcaatt gcaattatta ttggggcatt 350
 cttcattcca gaaggaactt ttacaactgt gtggttttat gtaggcattg 400
 cagggtgcctt ttgtttcatc ctcatacaac tagtcttact tattgatttt 450
 gcacattcat ggaatgaatc gtgggttgaa aaaatggaag aagggaactc 500
 gagatgttgg tatgcagcct tgttatcagc tacagctctg aattatctgc 550
 tgtctttagt tgctatcgtc ctgttctttg tctactacac tcatccagcc 600
 agttgttcag aaaacaaggc gttcatcagt gtcaacatgc tcctctgcgt 650
 tgggtgcttct gtaatg 666

<210> 78
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 78
 atgtttgtgt ggaagtgccc cg 22

<210> 79
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 79
 gtcaacatgc tcctctgc 18

<210> 80
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 80
 aatccattgt gcactgcagc tctagg 26

<210> 81
 <211> 23
 <212> DNA
 <213> Artificial Sequence

P2730P1sequencelisting.txt

<220>

<223> Synthetic oligonucleotide probe

<400> 81

gagcatgccca ccactggact gac 23

<210> 82

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 82

gccgatgctg tcctagtggga acaactcca ctgtaactag attgatctat 50

gcac 54

<210> 83

<211> 3906

<212> DNA

<213> Homo sapiens

<400> 83

ctcgggcgcg cacaggcagc tcggtttgcc ctgcgattga gctgcggggtc 50

gcggccggcg ccggcctctc caatggcaaa tgtgtgtggc tggaggcgag 100

cgcgaggctt tcggcaaagg cagtcgagtg tttgcagacc ggggagagtc 150

ctgtgaaagc agataaaaga aaacatttat taacgtgtca ttacgagggg 200

agcgcccgcg cggggctgtc gcactccccg cggaacattt ggctccctcc 250

agctccgaga gaggagaaga agaaagcgga aaagaggcag attcacgtcg 300

tttccagcca agtggacctg atcgatggcc ctctgaatt tatcacgata 350

tttgatttat tagcgatgcc ccctggtttg tgtgttacgc acacacacgt 400

gcacacaagg ctctggctcg cttccctccc tcgtttccag ctctgggcg 450

aatcccatat ctgtttcaac tctccgccga gggcgagcag gagcgagagt 500

gtgtcgaatc tgcgagtga gagggacgag ggaaaagaaa caaagccaca 550

gacgcaactt gagactcccc catcccaaaa gaagcaccag atcagcaaaa 600

aaagaagatg ggccccccga gcctcgtgct gtgcttgctg tccgcaactg 650

tgtttctcct gctgggtgga agctcggcct tcctgtcgca ccaccgctg 700

aaaggcaggt ttcagagggga ccgcaggaac atccgcccc aatcctcct 750

gggtgctgacg gacgaccagg atgtggagct gggttccatg caggatgatga 800

acaagacccg gcgcatcatg gagcagggcg gggcgcaact catcaacgcc 850

ttcgtgacca caccatgtg ctgcccctca cgctcctcca tcctcactgg 900

caagtacgtc cacaaccaca acacctacac caacaatgag aactgctcct 950

cgccctcctg gcaggcacag cacgagagcc gcacctttgc cgtgtacctc 1000

aatagcactg gctaccggac agctttcttc gggaagtatc ttaatgaata 1050

caacggctcc tacgtgccac ccggctggaa ggagtgggtc ggactcctta 1100

P2730P1sequencelisting.txt

```

aaaactcccg cttttataac tacacgctgt gtcggaacgg ggtgaaagag 1150
aagcacggct ccgactactc caaggattac ctcacagacc tcatacacia 1200
tgacagcgtg agcttcttcc gcacgtccaa gaagatgtac ccgcacaggc 1250
cagtcctcat ggtcatcagc catgcagccc cccacggccc tgaggattca 1300
gccccacaat attcacgcct cttcccaaac gcatctcagc acatcacgcc 1350
gagctacaac tacgcgcccc acccggacaa aacttgatc atgcgctaca 1400
cggggcccat gaagcccatc cacatggaat tcaccaacat gctccagcgg 1450
aagcgcttgc agaccctcat gtcggtggac gactccatgg agacgattta 1500
caacatgctg gttgagacgg gcgagctgga caacacgtac atcgtataca 1550
ccgccgacca cggttaccac atcggccagt ttggcctggt gaaagggaaa 1600
tccatgccat atgagtttga catcagggtc ccgttctacg tgaggggccc 1650
caacgtggaa gccggctgtc tgaatcccca catcgtcctc aacattgacc 1700
tggcccccac catcctggac attgcaggcc tggacatacc tgcggatatg 1750
gacgggaaat ccatcctcaa gctgctggac acggagcggc cggatgaatcg 1800
gtttcacttg aaaaagaaga tgagggtctg gcgggactcc ttcttggtgg 1850
agagaggcaa gctgctacac aagagagaca atgacaagggt ggacgcccag 1900
gaggagaact ttctgcccac gtaccagcgt gtgaaggacc tgtgtcagcg 1950
tgctgagtac cagacggcgt gtgagcagct gggacagaag tggcagtgtg 2000
tggaggacgc cacggggaag ctgaagctgc ataagtgcaa gggcccatg 2050
cggctgggcg gcagcagagc cctctccaac ctcgtgcca agtactacgg 2100
gcaggcgagc gaggcctgca cctgtgacag cggggactac aagctcagcc 2150
tggccggacg ccggaaaaaa ctcttcaaga agaagtacaa ggccagctat 2200
gtccgcagtc gctccatccg ctcatggcc atcgagggtg acggcagggt 2250
gtaccacgta ggcctgggtg atgccgcca gcccgaac ctcaccaagc 2300
ggcactggcc aggggcccct gaggaccaag atgacaagga tgggtggggac 2350
ttcagtggca ctggaggcct tcccgactac tcagccgcca acccattaa 2400
agtgacacat cggtgctaca tcctagagaa cgacacagtc cagtgtgacc 2450
tggacctgta caagtccctg caggcctgga aagaccacaa gctgcacatc 2500
gaccacgaga ttgaaaccct gcagaacaaa attaagaacc tgagggaagt 2550
ccgaggtcac ctgaagaaaa agcggccaga agaattgtgac tgtcacaaaa 2600
tcagctacca caccagcac aaaggccgcc tcaagcacag aggctccagt 2650
ctgcatcctt tcaggaaggg cctgcaagag aaggacaagg tgtggctgtt 2700
gcgggagcag aagcgcaaga agaaactccg caagctgctc aagcgctgc 2750
agaacaacga cacgtgcagc atgccaggcc tcacgtgctt caccacgac 2800

```

P2730P1sequencelisting.txt

aaccagcact ggcagacggc gcctttcttg acactggggc ctttctgtgc 2850
 ctgcaccagc gccacaata acacgtactg gtgcatgagg accatcaatg 2900
 agactcaciaa tttcctcttc tgtgaatttg caactggctt cctagagtac 2950
 tttgatctca acacagaccc ctaccagctg atgaatgcag tgaacacact 3000
 ggacagggat gtcctcaacc agctacacgt acagctcatg gagctgagga 3050
 gctgcaaggg ttacaagcag tgtaaccccc ggactcgaaa catggacctg 3100
 gatggaggaa gctatgagca atacaggcag tttcagcgtc gaaagtggcc 3150
 agaaatgaag agaccttctt ccaaactact gggacaactg tgggaaggct 3200
 ggggaaggta agaaacaaca gaggtggacc tccaaaaaca tagaggcatc 3250
 acctgactgc acaggcaatg aaaaaccatg tgggtgattt ccagcagacc 3300
 tgtgctattg gccaggaggc ctgagaaagc aagcacgcac tctcagtcaa 3350
 catgacagat tctggaggat aaccagcagg agcagagata acttcaggaa 3400
 gtccattttt gcccctgctt ttgctttgga ttatacctca ccagctgcac 3450
 aaaatgcatt ttttcgtatc aaaaagtcac cactaaccct cccccagaag 3500
 ctcacaaagg aaaacggaga gagcgagcga gagagatttc cttggaaatt 3550
 tctcccaagg gcgaaagtca ttggaatttt taaatcatag gggaaaagca 3600
 gtcctgttct aaatcctctt attcttttgg tttgtcacia agaaggaact 3650
 aagaagcagg acagaggcaa cgtggagagg ctgaaaacag tgcagagacg 3700
 tttgacaatg agtcagtagc acaaaagaga tgacatttac ctagcactat 3750
 aaaccctggg tgcctctgaa gaaactgcct tcattgtata tatgtgacta 3800
 tttacatgta atcaacatgg gaacttttag gggaaacctaa taagaaatcc 3850
 caattttcag gagtggtggg gtcaataaac gctctgtggc cagtgtaaaa 3900
 gaaaaa 3906

<210> 84
 <211> 867
 <212> PRT
 <213> Homo sapiens

<400> 84
 Met Gly Pro Pro Ser Leu Val Leu Cys Leu Leu Ser Ala Thr Val
 1 5 10 15
 Phe Ser Leu Leu Gly Gly Ser Ser Ala Phe Leu Ser His His Arg
 20 25 30
 Leu Lys Gly Arg Phe Gln Arg Asp Arg Arg Asn Ile Arg Pro Asn
 35 40 45
 Ile Ile Leu Val Leu Thr Asp Asp Gln Asp Val Glu Leu Gly Ser
 50 55 60
 Met Gln Val Met Asn Lys Thr Arg Arg Ile Met Glu Gln Gly Gly
 65 70 75

P2730P1sequencelisting.txt

Ala His Phe Ile	Asn 80	Ala Phe Val Thr	Thr 85	Pro Met Cys Cys	Pro 90
Ser Arg Ser Ser	Ile 95	Leu Thr Gly Lys	Tyr 100	Val His Asn His	Asn 105
Thr Tyr Thr Asn	Asn 110	Glu Asn Cys Ser	Ser 115	Pro Ser Trp Gln	Ala 120
Gln His Glu Ser	Arg 125	Thr Phe Ala Val	Tyr 130	Leu Asn Ser Thr	Gly 135
Tyr Arg Thr Ala	Phe 140	Phe Gly Lys Tyr	Leu 145	Asn Glu Tyr Asn	Gly 150
Ser Tyr Val Pro	Pro 155	Gly Trp Lys Glu	Trp 160	Val Gly Leu Leu	Lys 165
Asn Ser Arg Phe	Tyr 170	Asn Tyr Thr Leu	Cys 175	Arg Asn Gly Val	Lys 180
Glu Lys His Gly	Ser 185	Asp Tyr Ser Lys	Asp 190	Tyr Leu Thr Asp	Leu 195
Ile Thr Asn Asp	Ser 200	Val Ser Phe Phe	Arg 205	Thr Ser Lys Lys	Met 210
Tyr Pro His Arg	Pro 215	Val Leu Met Val	Ile 220	Ser His Ala Ala	Pro 225
His Gly Pro Glu	Asp 230	Ser Ala Pro Gln	Tyr 235	Ser Arg Leu Phe	Pro 240
Asn Ala Ser Gln	His 245	Ile Thr Pro Ser	Tyr 250	Asn Tyr Ala Pro	Asn 255
Pro Asp Lys His	Trp 260	Ile Met Arg Tyr	Thr 265	Gly Pro Met Lys	Pro 270
Ile His Met Glu	Phe 275	Thr Asn Met Leu	Gln 280	Arg Lys Arg Leu	Gln 285
Thr Leu Met Ser	Val 290	Asp Asp Ser Met	Glu 295	Thr Ile Tyr Asn	Met 300
Leu Val Glu Thr	Gly 305	Glu Leu Asp Asn	Thr 310	Tyr Ile Val Tyr	Thr 315
Ala Asp His Gly	Tyr 320	His Ile Gly Gln	Phe 325	Gly Leu Val Lys	Gly 330
Lys Ser Met Pro	Tyr 335	Glu Phe Asp Ile	Arg 340	Val Pro Phe Tyr	Val 345
Arg Gly Pro Asn	Val 350	Glu Ala Gly Cys	Leu 355	Asn Pro His Ile	Val 360
Leu Asn Ile Asp	Leu 365	Ala Pro Thr Ile	Leu 370	Asp Ile Ala Gly	Leu 375
Asp Ile Pro Ala	Asp 380	Met Asp Gly Lys	Ser 385	Ile Leu Lys Leu	Leu 390
Asp Thr Glu Arg	Pro 395	Val Asn Arg Phe	His 400	Leu Lys Lys Lys	Met 405
Arg Val Trp Arg	Asp 410	Ser Phe Leu Val	Glu 415	Arg Gly Lys Leu	Leu 420

P2730P1sequencelisting.txt

His	Lys	Arg	Asp	Asn 425	Asp	Lys	Val	Asp	Ala 430	Gln	Glu	Glu	Asn	Phe 435
Leu	Pro	Lys	Tyr	Gln 440	Arg	Val	Lys	Asp	Leu 445	Cys	Gln	Arg	Ala	Glu 450
Tyr	Gln	Thr	Ala	Cys 455	Glu	Gln	Leu	Gly	Gln 460	Lys	Trp	Gln	Cys	Val 465
Glu	Asp	Ala	Thr	Gly 470	Lys	Leu	Lys	Leu	His 475	Lys	Cys	Lys	Gly	Pro 480
Met	Arg	Leu	Gly	Gly 485	Ser	Arg	Ala	Leu	Ser 490	Asn	Leu	Val	Pro	Lys 495
Tyr	Tyr	Gly	Gln	Gly 500	Ser	Glu	Ala	Cys	Thr 505	Cys	Asp	Ser	Gly	Asp 510
Tyr	Lys	Leu	Ser	Leu 515	Ala	Gly	Arg	Arg	Lys 520	Lys	Leu	Phe	Lys	Lys 525
Lys	Tyr	Lys	Ala	Ser 530	Tyr	Val	Arg	Ser	Arg 535	Ser	Ile	Arg	Ser	Val 540
Ala	Ile	Glu	Val	Asp 545	Gly	Arg	Val	Tyr	His 550	Val	Gly	Leu	Gly	Asp 555
Ala	Ala	Gln	Pro	Arg 560	Asn	Leu	Thr	Lys	Arg 565	His	Trp	Pro	Gly	Ala 570
Pro	Glu	Asp	Gln	Asp 575	Asp	Lys	Asp	Gly	Gly 580	Asp	Phe	Ser	Gly	Thr 585
Gly	Gly	Leu	Pro	Asp 590	Tyr	Ser	Ala	Ala	Asn 595	Pro	Ile	Lys	Val	Thr 600
His	Arg	Cys	Tyr	Ile 605	Leu	Glu	Asn	Asp	Thr 610	Val	Gln	Cys	Asp	Leu 615
Asp	Leu	Tyr	Lys	Ser 620	Leu	Gln	Ala	Trp	Lys 625	Asp	His	Lys	Leu	His 630
Ile	Asp	His	Glu	Ile 635	Glu	Thr	Leu	Gln	Asn 640	Lys	Ile	Lys	Asn	Leu 645
Arg	Glu	Val	Arg	Gly 650	His	Leu	Lys	Lys	Lys 655	Arg	Pro	Glu	Glu	Cys 660
Asp	Cys	His	Lys	Ile 665	Ser	Tyr	His	Thr	Gln 670	His	Lys	Gly	Arg	Leu 675
Lys	His	Arg	Gly	Ser 680	Ser	Leu	His	Pro	Phe 685	Arg	Lys	Gly	Leu	Gln 690
Glu	Lys	Asp	Lys	Val 695	Trp	Leu	Leu	Arg	Glu 700	Gln	Lys	Arg	Lys	Lys 705
Lys	Leu	Arg	Lys	Leu 710	Leu	Lys	Arg	Leu	Gln 715	Asn	Asn	Asp	Thr	Cys 720
Ser	Met	Pro	Gly	Leu 725	Thr	Cys	Phe	Thr	His 730	Asp	Asn	Gln	His	Trp 735
Gln	Thr	Ala	Pro	Phe 740	Trp	Thr	Leu	Gly	Pro 745	Phe	Cys	Ala	Cys	Thr 750
Ser	Ala	Asn	Asn	Asn	Thr	Tyr	Trp	Cys	Met	Arg	Thr	Ile	Asn	Glu

P2730P1sequencelisting.txt

	755		760		765
Thr His Asn Phe	Leu Phe Cys Glu Phe	Ala Thr Gly Phe Leu	Glu		
	770	775			780
Tyr Phe Asp Leu	Asn Thr Asp Pro Tyr	Gln Leu Met Asn Ala	Val		
	785	790			795
Asn Thr Leu Asp	Arg Asp Val Leu Asn	Gln Leu His Val Gln	Leu		
	800	805			810
Met Glu Leu Arg	Ser Cys Lys Gly Tyr	Lys Gln Cys Asn Pro	Arg		
	815	820			825
Thr Arg Asn Met	Asp Leu Asp Gly Gly	Ser Tyr Glu Gln Tyr	Arg		
	830	835			840
Gln Phe Gln Arg	Arg Lys Trp Pro Glu	Met Lys Arg Pro Ser	Ser		
	845	850			855
Lys Ser Leu Gly	Gln Leu Trp Glu Gly	Trp Glu Gly			
	860	865			

<210> 85

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 85

gaagccggct gtctgaatc 19

<210> 86

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 86

ggccagctat ctccgcag 18

<210> 87

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 87

aagggcctgc aagagaag 18

<210> 88

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 88

cactgggaca actgtggg 18

<210> 89

P2730P1sequencelisting.txt

```

<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 89
cagaggcaac gtggagag 18

<210> 90
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 90
aagtattgtc atacagtgtt c 21

<210> 91
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 91
tagtacttgg gcacgaggtt ggag 24

<210> 92
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 92
tcataccaac tgctgggtcat tggc 24

<210> 93
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 93
ctcaagctgc tggacacgga gcggccggtg aatcggtttc acttg 45

<210> 94
<211> 971
<212> DNA
<213> Homo sapiens

<400> 94
aacaaagttc agtgactgag agggctgagc ggaggctgct gaaggggaga 50
aaggagtgag gagctgctgg gcagagaggg actgtccggc tcccagatgc 100
tgggcctcct ggggagcaca gccctcgtgg gatggatcac aggtgctgct 150
gtggcggtcc tgctgctgct gctgctgctg gccacctgcc tttccacgg 200

```

P2730P1sequencelisting.txt

acggcaggac tgtgacgtgg agaggaaccg tacagctgca gggggaaacc 250
gagtcgcg ccg gggccagcct tggcccttcc ggcggcgggg ccacctggga 300
atctttcacc atcaccgtca tcctggccac gtatctcatg tgccgaatgt 350
gggcctccac caccaccacc acccccgcca caccctcac cacctccacc 400
accaccacca cccccaccgc caccatcccc gccacgctcg ctgaggctgc 450
tgtcgccggt gcctgtggac agcagctgcc cctgccctcc catctgttcc 500
caggacaagt ggaccccatg tttccatgtg gaaggatgca tctctggggt 550
gaacgagggg aacaatagac tggggcttgc tccagctgca tttgcatggc 600
atgccccagt gtactatggc agcagagaat ggaggaacac tgggtctgca 650
gtgctgaagg gtttggggag tggagagcaa ggggtgctctt tcggggctgg 700
acagcccgtc ttgtgacagt gactcccagt gagccccaga aatgacaagc 750
gtgtcttggc agagccagca cacaagtgga tgtgaagtgc ccgtcttgac 800
ctcctcatca ggctgctgca ggctcttggc gggcagggca ctgggagagg 850
ccctgagaat gtccttttgg tttggagaag gcagtgtgag gctgcacagt 900
caattcatcg gtgccttagt ccaagaaaat aaaaaccact aagaagcttt 950
aaaaaaaaa aaaaaaaaaa a 971

<210> 95
<211> 115
<212> PRT
<213> Homo sapiens

<400> 95
Met Leu Gly Leu Leu Gly Ser Thr Ala Leu Val Gly Trp Ile Thr
1 5 10 15
Gly Ala Ala Val Ala Val Leu Leu Leu Leu Leu Leu Ala Thr
20 25 30
Cys Leu Phe His Gly Arg Gln Asp Cys Asp Val Glu Arg Asn Arg
35 40 45
Thr Ala Ala Gly Gly Asn Arg Val Arg Arg Ala Gln Pro Trp Pro
50 55 60
Phe Arg Arg Arg Gly His Leu Gly Ile Phe His His His Arg His
65 70 75
Pro Gly His Val Ser His Val Pro Asn Val Gly Leu His His His
80 85 90
His His Pro Arg His Thr Pro His His Leu His His His His His
95 100 105
Pro His Arg His His Pro Arg His Ala Arg
110 115

<210> 96
<211> 1312
<212> DNA
<213> Homo sapiens

<400> 96

P2730P1sequencelisting.txt

```

ggcggctgct gagctgcctt gaggtgcagt gttggggatc cagagccatg 50
tcggacctgc tactactggg cctgattggg ggcctgactc tcttactgct 100
gctgacgctg ctggcctttg ccgggtactc agggctactg gctgggggtg 150
aagtgagtgc tgggtcaccc cccatccgca acgtcactgt ggcctacaag 200
ttccacatgg ggctctatgg tgagactggg cggcttttca ctgagagctg 250
cagcatctct cccaagctcc gctccatcgc tgtctactat gacaaccccc 300
acatggtgcc ccctgataag tgccgatgtg ccgtgggcag catcctgagt 350
gaaggtaggg aatcgccctc ccctgagctc atcgacctct accagaaatt 400
tggcttcaag gtgttctcct tcccggcacc cagccatgtg gtgacagcca 450
ccttcccccta caccaccatt ctgtccatct ggctggctac ccgccgtgtc 500
catcctgcct tggacaccta catcaaggag cggaagctgt gtgcctatcc 550
tcggctggag atctaccagg aagaccagat ccatttcatg tgcccactgg 600
cacggcaggg agacttctat gtgcctgaga tgaaggagac agagtggaaa 650
tggcgggggc ttgtggaggc cattgacacc caggtggatg gcacaggagc 700
tgacacaatg agtgacacga gttctgtaag cttggaagtg agccctggca 750
gccgggagac ttcagctgcc aactgtcac ctggggcgag cagccgtggc 800
tgggatgacg gtgacacccg cagcgagcac agctacagcg agtcaggtgc 850
cagcggctcc tcttttgagg agctggactt ggagggcgag gggcccttag 900
gggagtcacg gctggaccct gggactgagc ccctggggac taccaagtgg 950
ctctgggagc cactgcccc tgagaagggc aaggagtaac ccatggcctg 1000
caccctcctg cagtgcagtt gctgaggaac tgagcagact ctccagcaga 1050
ctctccagcc ctcttctctc ttcctctggg ggaggagggg ttcctgaggg 1100
acctgacttc ccctgctcca ggcctcttgc taagccttct cctcactgcc 1150
ctttaggctc ccagggccag aggagccagg gactattttc tgcaccagcc 1200
cccagggctg ccgcccctgt tgtgtctttt tttcagactc acagtggagc 1250
ttccaggacc cagaataaag ccaatgattt acttgtttca cctggaaaaa 1300
aaaaaaaaaa aa 1312

```

<210> 97
 <211> 313
 <212> PRT
 <213> Homo sapiens

<400> 97
 Met Ser Asp Leu Leu Leu Leu Gly Leu Ile Gly Gly Leu Thr Leu
 1 5 10 15
 Leu Leu Leu Leu Thr Leu Leu Ala Phe Ala Gly Tyr Ser Gly Leu
 20 25 30
 Leu Ala Gly Val Glu Val Ser Ala Gly Ser Pro Pro Ile Arg Asn
 35 40 45

P2730P1sequencelisting.txt

```

val Thr Val Ala Tyr Lys Phe His Met Gly Leu Tyr Gly Glu Thr
      50      55      60
Gly Arg Leu Phe Thr Glu Ser Cys Ser Ile Ser Pro Lys Leu Arg
      65      70      75
ser Ile Ala Val Tyr Tyr Asp Asn Pro His Met Val Pro Pro Asp
      80      85      90
Lys Cys Arg Cys Ala Val Gly Ser Ile Leu Ser Glu Gly Glu Glu
      95     100     105
Ser Pro Ser Pro Glu Leu Ile Asp Leu Tyr Gln Lys Phe Gly Phe
     110     115     120
Lys Val Phe Ser Phe Pro Ala Pro Ser His Val Val Thr Ala Thr
     125     130     135
Phe Pro Tyr Thr Thr Ile Leu Ser Ile Trp Leu Ala Thr Arg Arg
     140     145     150
val His Pro Ala Leu Asp Thr Tyr Ile Lys Glu Arg Lys Leu Cys
     155     160     165
Ala Tyr Pro Arg Leu Glu Ile Tyr Gln Glu Asp Gln Ile His Phe
     170     175     180
Met Cys Pro Leu Ala Arg Gln Gly Asp Phe Tyr Val Pro Glu Met
     185     190     195
Lys Glu Thr Glu Trp Lys Trp Arg Gly Leu Val Glu Ala Ile Asp
     200     205     210
Thr Gln Val Asp Gly Thr Gly Ala Asp Thr Met Ser Asp Thr Ser
     215     220     225
Ser Val Ser Leu Glu Val Ser Pro Gly Ser Arg Glu Thr Ser Ala
     230     235     240
Ala Thr Leu Ser Pro Gly Ala Ser Ser Arg Gly Trp Asp Asp Gly
     245     250     255
Asp Thr Arg Ser Glu His Ser Tyr Ser Glu Ser Gly Ala Ser Gly
     260     265     270
Ser Ser Phe Glu Glu Leu Asp Leu Glu Gly Glu Gly Pro Leu Gly
     275     280     285
Glu Ser Arg Leu Asp Pro Gly Thr Glu Pro Leu Gly Thr Thr Lys
     290     295     300
Trp Leu Trp Glu Pro Thr Ala Pro Glu Lys Gly Lys Glu
     305     310

```

<210> 98
 <211> 725
 <212> DNA
 <213> Homo sapiens

<400> 98
 ccgcgggaac gctgtcctgg ctgccgccac ccgaacagcc tgtcctggtg 50
 ccccggtctcc ctgccccgcg ccagtcattg accctgcgcc cctcactcct 100
 cccgctccat ctgctgctgc tgctgctgct cagtgcggcg gtgtgccggg 150
 ctgaggctgg gctcgaaacc gaaagtccc tccggaccct ccaagtggag 200
 Page 82

P2730P1sequencelisting.txt

accctggtgg agccccaga accatgtgcc gagcccgctg cttttggaga 250
cacgcttcac atacactaca cggaagctt ggtagatgga cgtattattg 300
acacctccct gaccagagac cctctggtta tagaacttgg ccaaaagcag 350
gtgattccag gtctggagca gagtcttctc gacatgtgtg tgggagagaa 400
gcgaagggca atcattcctt ctacttggc ctatggaaaa cggggatttc 450
caccatctgt cccagcggat gcagtggcgc agtatgacgt ggagctgatt 500
gcactaatcc gagccaacta ctggctaaag ctggtgaagg gcattttgcc 550
tctggtaggg atggccatgg tgccagccct cctgggcctc attgggtatc 600
acctatacag aaaggccaat agacccaaag tctccaaaaa gaagctcaag 650
gaagagaaac gaaacaagag caaaaagaaa taataaataa taaattttaa 700
aaaacttaaa aaaaaaaaaa aaaaa 725

<210> 99
<211> 201
<212> PRT
<213> Homo sapiens

<400> 99
Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu
1 5 10 15
Leu Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu
20 25 30
Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu
35 40 45
Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu
50 55 60
His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp
65 70 75
Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys
80 85 90
Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val
95 100 105
Gly Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly
110 115 120
Lys Arg Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln
125 130 135
Tyr Asp Val Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu
140 145 150
Lys Leu Val Lys Gly Ile Leu Pro Leu Val Gly Met Ala Met Val
155 160 165
Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu Tyr Arg Lys Ala
170 175 180
Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu Glu Lys Arg
185 190 195

Asn Lys Ser Lys Lys Lys
200

<210> 100
<211> 705
<212> DNA
<213> Homo sapiens

<400> 100
cccgggaacg tggttcctggc tgccgcaccc gaacagcctg tcctggtgcc 50
ccggctccct gccccgcgcc cagtcacgac cctgcgcccc tcactcctcc 100
cgctccatct gctgctgctg ctgctgctca gtgcggcggt gtgccgggct 150
gaggctgggc tcgaaaccga aagtcccgtc cggaccctcc aagtggagac 200
cctggtggag cccccagaac catgtgccga gcccgtgct tttggagaca 250
cgcttcacat acactacacg ggaagcttgg tagatggacg tattattgac 300
acctccctga ccagagaccc tctggttata gaacttgcc aaaagcagg 350
gattccaggc ctggagcaga gtcttctcga catgtgtgtg ggagagaagc 400
gaagggcaat cattccttct cacttggcct atggaaaacg gggatttcca 450
ccatctgtcc cagcggatgc agtggtgcag tatgacgtgg agctgattgc 500
actaatccga gccaaactact ggctaaagct ggtgaagggc attttgcctc 550
tggtagggat ggccatggtg ccaccctcct gggcctcatt gggatcacc 600
tatacagaaa ggccaataga ccaaaagtct ccaaaaagaa gctcaaggaa 650
gagaaacgaa acaagagcaa aaagaaataa taaataataa attttaaaaa 700
actta 705

<210> 101
<211> 543
<212> DNA
<213> Homo sapiens

<400> 101
ccgaaagtcc cgtccggacc ctccaagtgg agaccctggt ggagccccca 50
gaaccatgtg ccgagcccg cgttttggga gacacgcttc acatacacta 100
cacgggaagc ttggtagatg gacgtattat tgacacctcc ctgaccagag 150
accctctggt tatagaactt ggccaaaagc aggtgattcc aggtctggag 200
cagagtcttc tcgacatgtg tgtgggagag aagcgaaggg caatcattcc 250
ttctcacttg gcctatggaa aacggggatt tccaccatct gtcccagcgg 300
atgcagtggc gcagtatgac gtggagctga ttgcactaat ccgagccaac 350
tactggctaa agctggtgaa gggcattttg cctctggtag ggatggccat 400
ggtgccagcc ctcttgggcc tcattgggta tcacctatac agaaaggcca 450
atagacccaa agtctccaaa aagaagctca aggaagagaa acgaaacaag 500
agcaaaaaga aataataaat aataaatttt aaaaaactta aaa 543

<210> 102

P2730P1sequencelisting.txt

<211> 1316
<212> DNA
<213> Homo sapiens

<400> 102
ctgctgcatc cgggtgtctg gaggctgtgg ccgttttggt ttcttggtta 50
aaatcggggg agtgaggcgg gccggcgagg cgcgacaccg ggctccggaa 100
ccactgcacg acggggctgg actgacctga aaaaaatgtc tggatttcta 150
gagggcttga gatgctcaga atgcattgac tggggggaaa agcgcaatac 200
tattgcttcc attgctgctg gtgtactatt ttttacaggc tgggtggatta 250
tcatagatgc agctgttatt tatcccacca tgaaagattt caaccactca 300
taccatgcct gtggtgttat agcaaccata gccttcctaa tgattaatgc 350
agtatcgaat ggacaagtcc gaggtgatag ttacagtga ggttgtctgg 400
gtcaaacagg tgctcgcat tggcttttcg ttggtttcat gttggccttt 450
ggatctctga ttgcatctat gtggattctt tttggagggt atgttgctaa 500
agaaaaagac atagtatacc ctggaattgc tgtatttttc cagaatgcct 550
tcatcttttt tggagggtct gtttttaagt ttggccgcac tgaagactta 600
tggcagtga cacaatctgat ttcccacagc acaacagccc tgcattgggt 650
tgtttgtttt ttactgctc actccaacc ttttgtaatg ccattttcta 700
aacttatttc tgagtgtagt ctgagcttaa agttgtgtaa tactaaaatc 750
acgagaacac ctaaacaaca accaaaaatc tattgtggta tgcattgat 800
taacttataa aatgttagag gaaactttca catgaataat tttgtcaaa 850
ttttatcatg gtataatttg taaaaataaa aagaaattac aaaagaaatt 900
atggatttgt caatgtaagt attgtcata tctgagggtcc aaaaccacaa 950
tgaaagtgt ctgaagattt aatgtgttta ttcaaagtgt gtctcttctg 1000
tgtcaaagt taaatgaaat ataaacattt tttagttttt aaaatattcc 1050
gtggtcaaaa ttcttcctca ctataattgg tatttacttt taccaaaaat 1100
tctgtgaaca tgtaatgtaa ctggcttttg agggctctcc aaggggtgag 1150
tggacgtgtt ggaagagaga agcaccatgg tccagccacc aggtccctg 1200
tgtcccttcc atgggaagg cttccgctgt gcctctcatt ccaagggcag 1250
gaagatgtga ctgagccatg acacgtgggt ctggtgggat gcacagtcac 1300
tccacatcca ccaactg 1316

<210> 103
<211> 157
<212> PRT
<213> Homo sapiens

<400> 103
Met Ser Gly Phe Leu Glu Gly Leu Arg Cys Ser Glu Cys Ile Asp
1 5 10 15

P2730P1sequencelisting.txt

Trp Gly Glu Lys Arg Asn Thr Ile Ala Ser Ile Ala Ala Gly Val
20 25 30
Leu Phe Phe Thr Gly Trp Trp Ile Ile Ile Asp Ala Ala Val Ile
35 40 45
Tyr Pro Thr Met Lys Asp Phe Asn His Ser Tyr His Ala Cys Gly
50 55 60
Val Ile Ala Thr Ile Ala Phe Leu Met Ile Asn Ala Val Ser Asn
65 70 75
Gly Gln Val Arg Gly Asp Ser Tyr Ser Glu Gly Cys Leu Gly Gln
80 85 90
Thr Gly Ala Arg Ile Trp Leu Phe Val Gly Phe Met Leu Ala Phe
95 100 105
Gly Ser Leu Ile Ala Ser Met Trp Ile Leu Phe Gly Gly Tyr Val
110 115 120
Ala Lys Glu Lys Asp Ile Val Tyr Pro Gly Ile Ala Val Phe Phe
125 130 135
Gln Asn Ala Phe Ile Phe Phe Gly Gly Leu Val Phe Lys Phe Gly
140 145 150
Arg Thr Glu Asp Leu Trp Gln
155

<210> 104
<211> 545
<212> DNA
<213> Homo sapiens

<400> 104
ttcttggtcta aaatcggggg agtgaggcgg gccggcgcg cgcgacaccg 50
ggctccggaa ccaactgcacg acggggctgg actgacctga aaaaaatgtc 100
tggatttcta gagggcttga gatgctcaga atgcattgac tggggggaaa 150
agcgcaatac tattgcttcc attgctgctg gtgtactatt ttttacaggc 200
tggtggatta tcatagatgc agctgttatt tatccacca tgaaagattt 250
caaccactca taccatgcct gtggtgttat agcaaccata gccttcctaa 300
tgattaatgc agtatcgaat ggacaagtcc gaggtgatag ttacagtga 350
ggttgtctgg gtcaaacagg tgctcgcat tggcttttcg ttggtttcat 400
gttggccttt ggatctctga ttgcatctat gtggattctt tttggagggt 450
atgttgctaa agaaaaagac atagtatacc ctggaattgc tgtatttttc 500
cagaatgcct tcatcttttt tggagggctg gtttttaagt ttggc 545

<210> 105
<211> 490
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 31, 39, 108, 145, 179, 219, 412, 479
<223> unknown base

P2730P1sequencelisting.txt

<400> 105
 tggacggacc tgaaaaaaat gtttggattt ntagaggnt tgagatgttc 50
 agaatgcatg actgggggaa aagcgcaaat actattgctt ccattgctgc 100
 tgggtgtaata ttttttacag gctggtggat tatcatagat gcagntgtta 150
 tttatccac catgaaagat ttcaaccant cataccatgc ctgtggtgtt 200
 atagcaacca tagccttcnt aatgattaat gcagtatcga atggacaagt 250
 ccgaggtgat agttacagtg aagggtgttt gggtaaaca ggtgctcgca 300
 tttggctttt cgttggtttc atgttggcct ttggatctct gattgcatct 350
 atgtggattc tttttggagg ttatgttgct aaagaaaaag acatagtata 400
 ccctggaatt gntgtatttt tccagaatgc cttcatcttt tttggagggc 450
 tggtttttaa gtttggccgc actgaagant tatggcagt 490

<210> 106
 <211> 466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 26, 38, 81, 115, 207, 329, 380, 446, 449
 <223> unknown base

<400> 106
 ggacaccggg ttccggacca atgcangacg ggggtggantg acctgaaaaa 50
 aatgttttga ttttttagagg gcttgagatg ntcagaatgc attgactggg 100
 ggaaaagcgc aatantattg ctttccattg ctgctggtgt actatTTTTT 150
 acagggtggt ggattatcat agatgcagct gttatttatc ccaccatgaa 200
 agatttnaac cactcatacc atgcctgtgg tgttatagca accatagcct 250
 tcctaataatg taatgcagta tcgaatggac aagtcgagg tgatagttac 300
 agtgaagggt gtttgggtca aacaggtgnt cgcatttggc ttttcgttgg 350
 tttcatgttg gcctttggat ttctgattgn attctatgcg gattcttctt 400
 ggaggttatg ttgctaaaga aaaagacata gtataccctg gaattnctnt 450
 atttttccag aatgcc 466

<210> 107
 <211> 377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 52, 67, 70, 78, 105, 144, 150, 209, 266, 268, 282, 310, 331, 356
 <223> unknown base

<400> 107
 tagagggtt gagatgctca gaatgcattg actgggggga aaagcgcaat 50
 antattgctt ccattgntgn tgggtgtaata tttttttaca ggctggtgga 100
 ttatnataga tgcagctgtt atttatccca ccatgaaaga tttnaaccan 150

P2730P1sequencelisting.txt

tcataccatg cctgtggtgt tatagcaacc atagccttcc taatgattaa 200
 tgcagtatng aatggacaag tccgaggtga tagttacagt gaaggttggt 250
 tgggtcaaac aggtgntngc atttggcttt tngttggttt catgttggcc 300
 tttggatctn tgattgcatt tatgtggatt ntttttggag gttatgttgc 350
 taaagnaaaa gacatagtat accctgt 377

<210> 108

<211> 552

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 12, 25, 65, 130, 437, 537

<223> unknown base

<400> 108

gggaggctgt gnccgttttg tttntttggc taaaatcggg ggagtgaggc 50
 ggcccggcgc ggcngacac cgggttccgg gaaccattgc acgacggggt 100
 ggactgacct gaaaaaaatg tttggatttn tagagggtt gagatgctca 150
 gaatgcattg actgggggga aaagcgcaat actattgctt ccattgctgc 200
 tgggtgtacta ttttttacag gctggtggat tatcatagat gcagctgtta 250
 tttatccac catgaaagat ttcaaccact cataccatgc ctgtggtggt 300
 atagcaacca tagccttcct aatgattaat gcagtatcga atggacaagt 350
 ccgaggtgat agttacagtg aagggtgtct gggtaaaca ggtgctcgca 400
 tttggctttt cgttgggttc atgttggcct ttggatntct gattgcatct 450
 atgtggattc tttttggagg ttatgttgct aaagaaaaag acatagtata 500
 ccctggaatt gctgtatttt tccagaatgc cttcatnttt tttggagggc 550
 tg 552

<210> 109

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 109

gggtggatgg tactgctgca tcc 23

<210> 110

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 110

tgttgtgctg tgggaaatca gatgtg 26

P2730P1sequencelisting.txt

<210> 111
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 111
 gtgtctggag gctgtggccg ttttgttttc ttgggctaaa atcggg 46

<210> 112
 <211> 3004
 <212> DNA
 <213> Homo sapiens

<400> 112
 cgacgccggc gtgatgtggc ttccgctggt gctgctcctg gctgtgctgc 50
 tgctggccgt cctctgcaaa gtttacttgg gactattctc tggcagctcc 100
 ccgaatcctt tctccgaaga tgtcaaacgg cccccagcgc ccctggtaac 150
 tgacaaggag gccaggaaga aggttctcaa acaagctttt tcagccaacc 200
 aagtgccgga gaagctggat gtggtggtaa ttggcagtgg ctttgggggc 250
 ctggctgcag ctgcaattct agctaaagct ggcaagcgag tcctggtgct 300
 ggaacaacat accaaggcag ggggctgctg tcataccttt ggaaagaatg 350
 gccttgaatt tgacacagga atccattaca ttgggcgatg ggaagagggc 400
 agcattggcc gttttatctt ggaccagatc actgaagggc agctggactg 450
 ggctccccctg tcctctcctt ttgacatcat ggtactggaa gggcccaatg 500
 gccgaaagga gtaccccatg tacagtggag agaaagccta cattcagggc 550
 ctcaaggaga agtttccaca ggaggaagct atcattgaca agtatataaa 600
 gctggttaag gtggtatcca gtggagcccc tcatgccatc ctgttgaaat 650
 tcctcccatg gcccgtgggt cagctcctcg acaggtgtgg gctgctgact 700
 cgtttctctc cattccttca agcatccacc cagagcctgg ctgaggtcct 750
 gcagcagctg ggggcctcct ctgagctcca ggcagtactc agctacatct 800
 tccccactta cgggtgcacc cccaaccaca gtgccttttc catgcacgcc 850
 ctgctggtca accactacat gaaaggaggc ttttatcccc gaggggggtt 900
 cagtgaaatt gccttccaca ccatccctgt gattcagcgg gctgggggcg 950
 ctgtcctcac aaaggccact gtgcagagtg tgttgctgga ctgagctggg 1000
 aaagcctgtg gtgtcagtgt gaagaagggg catgagctgg tgaacatcta 1050
 ttgccccatc gtggtctcca acgcaggact gttcaacacc tatgaacacc 1100
 tactgccggg gaacgcccg cgcctgccag gtgtgaagca gcaactgggg 1150
 acggtgcggc ccggcttagg catgacctct gttttcatct gcctgcgagg 1200
 caccaaggaa gacctgcac tgccgtccac caactactat gtttactatg 1250
 acacggacat ggaccaggcg atggagcgct acgtctccat gcccagggaa 1300

P2730P1sequencelisting.txt

gaggctgcgg aacacatccc tcttctcttc ttcgctttcc catcagccaa 1350
 agatccgacc tgggaggacc gattcccagg ccggtccacc atgatcatgc 1400
 tcatacccac tgcctacgag tggtttgagg agtggcaggc ggagctgaag 1450
 ggaaagcggg gcagtgacta tgagaccttc aaaaactcct ttgtggaagc 1500
 ctctatgtca gtggtcctga aactgttccc acagctggag gggaggtgg 1550
 agagtgtgac tgcaggatcc cactcacca accagttcta tctggctgct 1600
 ccccgagggtg cctgctacgg ggctgaccat gacctgggccc gcctgcaccc 1650
 ttgtgtgatg gcctccttga gggcccagag ccccatcccc aacctctatc 1700
 tgacaggcca ggatatcttc acctgtggac tggtcggggc cctgcaagg 1750
 gccctgctgt gcagcagcgc catcctgaag cggaacttgt actcagacct 1800
 taagaatctt gattctagga tccgggcaca gaagaaaaag aattagttcc 1850
 atcagggagg agtcagagga atttgcccaa tggctggggc atctcccttg 1900
 acttaccat aatgtctttc tgcattagtt ccttgcacgt ataaagcact 1950
 ctaatttggt tctgatgcct gaagagaggc ctagttttaa tcacaattcc 2000
 gaatctgggg caatggaatc actgcttcca gctggggcag gtgagatctt 2050
 tacgcctttt ataacatgcc atccctacta ataggatatt gacttggata 2100
 gcttgatgtc tcatgacgag cggcgctctg catccctcac ccatgcctcc 2150
 taactcagt atcaaagcga atattccatc tgtggataga acccctggca 2200
 gtgttgctcag ctcaacctgg tgggttcagt tctgtcctga ggcttctgct 2250
 ctcatcatt tagtgctacg ctgcacagtt ctacactgtc aagggaaaag 2300
 ggagactaat gaggcctaac tcaaaacctg ggcgtgggtt tggttgccat 2350
 tccatagggt tggagagctc tagatctctt ttgtgctggg ttcagtggct 2400
 cttcagggga caggaaatgc ctgtgtctgg ccagtgtggt tctggagctt 2450
 tggggtaaca gcaggatcca tcagttagta ggggtcatgt cagatgatca 2500
 tatccaattc atatggaagt cccgggtctg tcttccttat catcggggtg 2550
 gcagctgggt ctcaatgtgc cagcaggggac tcagtacctg agcctcaatc 2600
 aagccttata caccaataac acaggggaagg gtgatgcagg gaagggtgac 2650
 atcaggagtc agggcatgga ctggtaagat gaatactttg ctgggctgaa 2700
 gcaggctgca gggcattcca gccaaaggga cagcaggga cagtgcagg 2750
 aggtgtgggg taaggagggg aagtcacatc agaaaaggga aagccacgga 2800
 atgtgtgtga agcccagaaa tggcatttgc agttaattag cacatgtgag 2850
 ggtagacag gtaggtgaat gcaagctcaa ggtttgaaa aatgactttt 2900
 cagttatgtc tttggtatca gacatacgaa aggtctcttt gtagttcgtg 2950
 ttaatgtaac attaataaat ttattgattc cattgcttta aaaaaaaaaa 3000

P2730P1sequencelisting.txt

aaaa 3004

<210> 113
 <211> 610
 <212> PRT
 <213> Homo sapiens

<400> 113
 Met Trp Leu Pro Leu Val Leu Leu Leu Ala Val Leu Leu Leu Ala
 1 5 10 15
 Val Leu Cys Lys Val Tyr Leu Gly Leu Phe Ser Gly Ser Ser Pro
 20 25 30
 Asn Pro Phe Ser Glu Asp Val Lys Arg Pro Pro Ala Pro Leu Val
 35 40 45
 Thr Asp Lys Glu Ala Arg Lys Lys Val Leu Lys Gln Ala Phe Ser
 50 55 60
 Ala Asn Gln Val Pro Glu Lys Leu Asp Val Val Val Ile Gly Ser
 65 70 75
 Gly Phe Gly Gly Leu Ala Ala Ala Ala Ile Leu Ala Lys Ala Gly
 80 85 90
 Lys Arg Val Leu Val Leu Glu Gln His Thr Lys Ala Gly Gly Cys
 95 100 105
 Cys His Thr Phe Gly Lys Asn Gly Leu Glu Phe Asp Thr Gly Ile
 110 115 120
 His Tyr Ile Gly Arg Met Glu Glu Gly Ser Ile Gly Arg Phe Ile
 125 130 135
 Leu Asp Gln Ile Thr Glu Gly Gln Leu Asp Trp Ala Pro Leu Ser
 140 145 150
 Ser Pro Phe Asp Ile Met Val Leu Glu Gly Pro Asn Gly Arg Lys
 155 160 165
 Glu Tyr Pro Met Tyr Ser Gly Glu Lys Ala Tyr Ile Gln Gly Leu
 170 175 180
 Lys Glu Lys Phe Pro Gln Glu Glu Ala Ile Ile Asp Lys Tyr Ile
 185 190 195
 Lys Leu Val Lys Val Val Ser Ser Gly Ala Pro His Ala Ile Leu
 200 205 210
 Leu Lys Phe Leu Pro Leu Pro Val Val Gln Leu Leu Asp Arg Cys
 215 220 225
 Gly Leu Leu Thr Arg Phe Ser Pro Phe Leu Gln Ala Ser Thr Gln
 230 235 240
 Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser Glu Leu
 245 250 255
 Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr Pro
 260 265 270
 Asn His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr
 275 280 285
 Met Lys Gly Gly Phe Tyr Pro Arg Gly Gly Ser Ser Glu Ile Ala
 290 295 300

P2730P1sequencelisting.txt

Phe His Thr Ile	Pro 305	Val Ile Gln Arg	Ala 310	Gly Gly Ala Val	Leu 315
Thr Lys Ala Thr	Val 320	Gln Ser Val Leu	Leu 325	Asp Ser Ala Gly	Lys 330
Ala Cys Gly val	Ser 335	val Lys Lys Gly	His 340	Glu Leu val Asn	Ile 345
Tyr Cys Pro Ile	Val 350	val Ser Asn Ala	Gly 355	Leu Phe Asn Thr	Tyr 360
Glu His Leu Leu	Pro 365	Gly Asn Ala Arg	Cys 370	Leu Pro Gly Val	Lys 375
Gln Gln Leu Gly	Thr 380	val Arg Pro Gly	Leu 385	Gly Met Thr Ser	Val 390
Phe Ile Cys Leu	Arg 395	Gly Thr Lys Glu	Asp 400	Leu His Leu Pro	Ser 405
Thr Asn Tyr Tyr	Val 410	Tyr Tyr Asp Thr	Asp 415	Met Asp Gln Ala	Met 420
Glu Arg Tyr Val	Ser 425	Met Pro Arg Glu	Glu 430	Ala Ala Glu His	Ile 435
Pro Leu Leu Phe	Phe 440	Ala Phe Pro Ser	Ala 445	Lys Asp Pro Thr	Trp 450
Glu Asp Arg Phe	Pro 455	Gly Arg Ser Thr	Met 460	Ile Met Leu Ile	Pro 465
Thr Ala Tyr Glu	Trp 470	Phe Glu Glu Trp	Gln 475	Ala Glu Leu Lys	Gly 480
Lys Arg Gly Ser	Asp 485	Tyr Glu Thr Phe	Lys 490	Asn Ser Phe Val	Glu 495
Ala Ser Met Ser	Val 500	val Leu Lys Leu	Phe 505	Pro Gln Leu Glu	Gly 510
Lys Val Glu Ser	Val 515	Thr Ala Gly Ser	Pro 520	Leu Thr Asn Gln	Phe 525
Tyr Leu Ala Ala	Pro 530	Arg Gly Ala Cys	Tyr 535	Gly Ala Asp His	Asp 540
Leu Gly Arg Leu	His 545	Pro Cys Val Met	Ala 550	Ser Leu Arg Ala	Gln 555
Ser Pro Ile Pro	Asn 560	Leu Tyr Leu Thr	Gly 565	Gln Asp Ile Phe	Thr 570
Cys Gly Leu Val	Gly 575	Ala Leu Gln Gly	Ala 580	Leu Leu Cys Ser	Ser 585
Ala Ile Leu Lys	Arg 590	Asn Leu Tyr Ser	Asp 595	Leu Lys Asn Leu	Asp 600
Ser Arg Ile Arg	Ala 605	Gln Lys Lys Lys	Asn 610		

<210> 114
 <211> 1701
 <212> DNA
 <213> Homo sapiens

P2730P1sequencelisting.txt

```

<400> 114
gcagcggcga ggcggcggtg gtggctgagt ccgtggtggc agaggcgaag 50
gcgacagctc taggggttgg caccggcccc gagaggagga tgcgggtccg 100
gatagggtcg acgctgctgc tgtgtgcggt gctgctgagc ttggcctcgg 150
cgtcctcggg tgaagaaggc agccaggatg aatccttaga ttccaagact 200
actttgacat cagatgagtc agtaaaggac catactactg caggcagagt 250
agttgctggt caaatatttc ttgattcaga agaatctgaa ttagaatcct 300
ctattcaaga agaggaagac agcctcaaga gccaaagggg ggaaagtgtc 350
acagaagata tcagctttct agagtctcca aatccagaaa acaaggacta 400
tgaagagcca aagaaagtac ggaaaccagc tttgaccgcc attgaaggca 450
cagcacatgg ggagccctgc cacttccctt ttcttttctt agataaggag 500
tatgatgaat gtacatcaga tgggagggaa gatggcagac tgtggtgtgc 550
tacaacctat gactacaaag cagatgaaaa gtggggcttt tgtgaaactg 600
aagaagaggc tgctaagaga cggcagatgc aggaagcaga aatgatgtat 650
caaaactggg tgaaaatcct taatggaagc aataagaaaa gccaaaaaag 700
agaagcatat cggatatctc aaaaggcagc aagcatgaac cataccaaaag 750
ccctggagag agtgtcatat gctcttttat ttggtgatta cttgccacag 800
aatatccagg cagcgagaga gatgtttgag aagctgactg aggaaggctc 850
tccaaggga cagactgctc ttggctttct gtatgcctct ggacttggtg 900
ttaattcaag tcaggcaaag gctcttgtat attatacatt tggagctctt 950
gggggcaatc taatagccca catggttttg gtaagtagac tttagtggaa 1000
ggctaataat attaacatca gaagaatttg tggtttatag cggccacaac 1050
tttttcagct ttcagatgcc agatttgctt gtattaagac caaatattca 1100
gttgaacttc cttcaaatc ttgttaatgg atataacaca tggaatctac 1150
atgtaaatga aagttggtgg agtccacaat ttttctttaa aatgattagt 1200
ttggctgatt gcccctaaaa agagagatct gataaatggc tctttttaaa 1250
ttttctctga gttggaattg tcagaatcat tttttacatt agattatcat 1300
aattttaaaa atttttcttt agtttttcaa aattttgtaa atggtggcta 1350
tagaaaaaca acatgaaata ttatacaata ttttgcaaca atgccctaag 1400
aattgttaaa attcatggag ttatttgtgc agaatgactc cagagagctc 1450
tactttctgt tttttacttt tcatgattgg ctgtcttccc atttattctg 1500
gtcattttatt gctagtgaca ctgtgcctgc ttccagtagt ctcattttcc 1550
ctattttgct aatttggttac tttttctttg ctaatttgga agattaactc 1600
atttttaata aaattatgtc taagattaaa aaaaaaaaaa aaaaaaaaaa 1650

```

P2730P1sequencelisting.txt

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1700

a 1701

<210> 115

<211> 301

<212> PRT

<213> Homo sapiens

<400> 115

Met Arg Val Arg Ile Gly Leu Thr Leu Leu Leu Cys Ala Val Leu
1 5 10 15

Leu Ser Leu Ala Ser Ala Ser Ser Asp Glu Glu Gly Ser Gln Asp
20 25 30

Glu Ser Leu Asp Ser Lys Thr Thr Leu Thr Ser Asp Glu Ser Val
35 40 45

Lys Asp His Thr Thr Ala Gly Arg Val Val Ala Gly Gln Ile Phe
50 55 60

Leu Asp Ser Glu Glu Ser Glu Leu Glu Ser Ser Ile Gln Glu Glu
65 70 75

Glu Asp Ser Leu Lys Ser Gln Glu Gly Glu Ser Val Thr Glu Asp
80 85 90

Ile Ser Phe Leu Glu Ser Pro Asn Pro Glu Asn Lys Asp Tyr Glu
95 100 105

Glu Pro Lys Lys Val Arg Lys Pro Ala Leu Thr Ala Ile Glu Gly
110 115 120

Thr Ala His Gly Glu Pro Cys His Phe Pro Phe Leu Phe Leu Asp
125 130 135

Lys Glu Tyr Asp Glu Cys Thr Ser Asp Gly Arg Glu Asp Gly Arg
140 145 150

Leu Trp Cys Ala Thr Thr Tyr Asp Tyr Lys Ala Asp Glu Lys Trp
155 160 165

Gly Phe Cys Glu Thr Glu Glu Glu Ala Ala Lys Arg Arg Gln Met
170 175 180

Gln Glu Ala Glu Met Met Tyr Gln Thr Gly Met Lys Ile Leu Asn
185 190 195

Gly Ser Asn Lys Lys Ser Gln Lys Arg Glu Ala Tyr Arg Tyr Leu
200 205 210

Gln Lys Ala Ala Ser Met Asn His Thr Lys Ala Leu Glu Arg Val
215 220 225

Ser Tyr Ala Leu Leu Phe Gly Asp Tyr Leu Pro Gln Asn Ile Gln
230 235 240

Ala Ala Arg Glu Met Phe Glu Lys Leu Thr Glu Glu Gly Ser Pro
245 250 255

Lys Gly Gln Thr Ala Leu Gly Phe Leu Tyr Ala Ser Gly Leu Gly
260 265 270

Val Asn Ser Ser Gln Ala Lys Ala Leu Val Tyr Tyr Thr Phe Gly
275 280 285

Ala Leu Gly Gly Asn Leu Ile Ala His Met Val Leu Val Ser Arg
Page 94

290

295

300

Leu

<210> 116
 <211> 584
 <212> DNA
 <213> Homo sapiens

<400> 116
 cttcccagcc ctgtgcccc aagcacctgg agcatatagc cttgcagaac 50
 ttctacttgc ctgcctccct gcctctggcc atggcctgcc ggtgcctcag 100
 cttccttctg atggggacct tcctgtcagt ttcccagaca gtcctggccc 150
 agctggatgc actgctggtc ttcccaggcc aagtggctca actctcctgc 200
 acgctcagcc cccagcacgt caccatcagg gactacggtg tgccttggtg 250
 ccagcagcgg gcaggcagtg cccctcgata tctcctctac taccgctcgg 300
 aggaggatca ccaccggcct gctgacatcc ccgatcgatt ctcggcagcc 350
 aaggatgagg cccacaatgc ctgtgtcctc accattagtc ccgtgcagcc 400
 tgaagacgac gcggattact actgctctgt tggctacggc tttagtcctt 450
 aggggtgggg tgtgagatgg gtgcctcccc tctgcctccc atttctgccc 500
 ctgaccttgg gtccctttta aactttctct gagccttgct tcccctctgt 550
 aaaatgggtt aataatattc aacatgtcaa caac 584

<210> 117
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 117
 Met Ala Cys Arg Cys Leu Ser Phe Leu Leu Met Gly Thr Phe Leu
 1 5 10 15
 Ser Val Ser Gln Thr Val Leu Ala Gln Leu Asp Ala Leu Leu Val
 20 25 30
 Phe Pro Gly Gln Val Ala Gln Leu Ser Cys Thr Leu Ser Pro Gln
 35 40 45
 His Val Thr Ile Arg Asp Tyr Gly Val Ser Trp Tyr Gln Gln Arg
 50 55 60
 Ala Gly Ser Ala Pro Arg Tyr Leu Leu Tyr Tyr Arg Ser Glu Glu
 65 70 75
 Asp His His Arg Pro Ala Asp Ile Pro Asp Arg Phe Ser Ala Ala
 80 85 90
 Lys Asp Glu Ala His Asn Ala Cys Val Leu Thr Ile Ser Pro Val
 95 100 105
 Gln Pro Glu Asp Asp Ala Asp Tyr Tyr Cys Ser Val Gly Tyr Gly
 110 115 120
 Phe Ser Pro

P2730P1sequencelisting.txt

<210> 118
 <211> 3402
 <212> DNA
 <213> Homo sapiens

<400> 118
 gccgccccgc cccgagaccg ggcccggggg cgcggggcg cgggatgcgg 50
 cgcccggggc ggcgatgacc gcggagcgca cgccgcgggc ccggccctga 100
 ccccgcgcgc cgcccgtga gccccccgccc gaggtccgga caggccgaga 150
 tgacgccgag cccctgttg ctgctcctgc tgccgccgct gctgctgggg 200
 gccttccccac cggccgcccgc cgcccgaggc ccccaaaaga tggcggacaa 250
 ggtggtccca cggcaggtgg cccggctggg ccgcactgtg cggctgcagt 300
 gcccagtga gggggacccg ccgccgctga ccatgtggac caaggatggc 350
 cgcaccatcc acagcggctg gagccgcttc cgcgtgctgc cgcaggggct 400
 gaaggtgaag caggtggagc gggaggatgc cggcgtgtac gtgtgcaagg 450
 ccaccaacgg cttcggcagc ctgagcgtca actacaccct cgtcgtgctg 500
 gatgacatta gcccagggaa ggagagcctg gggcccgaca gtcctcttgg 550
 gggtaagag gaccccgcca gccagcagt ggcacgaccg cgcttcacac 600
 agccctccaa gatgaggcgc cgggtgatcg cacggcccgt gggtagctcc 650
 gtgcggctca agtgctggc cagcgggcac cctcggcccg acatcacgtg 700
 gatgaaggac gaccaggcct tgacgcgccc agaggccgct gagcccagga 750
 agaagaagtg gacactgagc ctgaagaacc tgcggccgga ggacagcggc 800
 aaatacacct gccgcgtgtc gaaccgcgcg ggcgccatca acgccaccta 850
 caaggtgat gtgatccagc ggaccgcttc caagcccgtg ctcacaggca 900
 cgcaccccggt gaacacgacg gtggacttcg gggggaccac gtccttcag 950
 tgcaaggtgc gcagcgacgt gaagccggtg atccagtggc tgaagcgcgt 1000
 ggagtacggc gccgagggcc gccacaactc caccatcgat gtgggcggcc 1050
 agaagtttgt ggtgctgccc acgggtgacg tgtggtcgcg gcccagcggc 1100
 tcctacctca ataagctgct catcacccgt gcccgccagg acgatgcggg 1150
 catgtacatc tgccttggcg ccaacaccat gggctacagc ttccgcagcg 1200
 ccttcctcac cgtgctgcca gacccaaaac cgccagggcc acctgtggcc 1250
 tcctcgtcct cggccactag cctgcccgtg cccgtggtca tcggcatccc 1300
 agccggcgct gtcttcatcc tgggcaccct gtcctgttg ctttgccagg 1350
 cccagaagaa gccgtgcacc cccgcgcctg cccctcccct gcctgggcac 1400
 cgcccgcggg ggacggcccc cgaccgcagc ggagacaagg accttcctc 1450
 gttggccgcc ctacagcgtg gccctggtgt ggggctgtgt gaggagcatg 1500
 ggtctccggc agccccccag cacttactgg gcccagggcc agttgctggc 1550

P2730P1sequencelisting.txt

cctaagttgt accccaaact ctacacagac atccacacac acacacacac 1600
acactctcac acacactcac acgtggaggg caaggtccac cagcacatcc 1650
actatcagtg ctagacggca ccgtatctgc agtgggcacg ggggggcccgg 1700
ccagacaggc agactgggag gatggaggac ggagctgcag acgaaggcag 1750
gggacccatg gcgaggagga atggccagca cccagggcag tctgtgtgtg 1800
aggcatagcc cctggacaca cacacacaga cacacacact acctggatgc 1850
atgtatgcac acacatgcgc gcacacgtgc tccctgaagg cacacgtacg 1900
cacacgcaca tgcacagata tgccgcctgg gcacacagat aagctgcca 1950
aatgcacgca cagcacaga gacatgccag aacatacaag gacatgctgc 2000
ctgaacatac acacgcacac ccatgcgcag atgtgctgcc tggacacaca 2050
cacacacacg gatatgctgt ctggacgcac acacgtgcag atatggtatc 2100
cggacacaca cgtgcacaga tatgctgcct ggacacacag ataatgctgc 2150
cttgacacac acatgcacgg atattgcctg gacacacaca cacacacacg 2200
cgtgcacaga tatgctgtct ggacacgcac acacatgcag atatgctgcc 2250
tggacacaca cttccagaca cacgtgcaca ggcgcagata tgctgcctgg 2300
acacacgcag atatgctgtc tagtcacaca cacacgcaga catgctgtcc 2350
ggacacacac acgcatgcac agatatgctg tccggacaca cacacgcacg 2400
cagatatgct gcctggacac acacacagat aatgctgcct caacactcac 2450
acacgtgcag atattgcctg gacacacaca tgtgcacaga tatgctgtct 2500
ggacatgcac acacgtgcag atatgctgtc cggatacaca cgcacgcaca 2550
catgcagata tgctgcctgg gcacacactt ccggacacac atgcacacac 2600
aggtgcagat atgctgcctg gacacacaca cagataatgc tgctcaaca 2650
ctcacacacg tgcagatatt gcctggacac acacatgtgc acagatatgc 2700
tgtctggaca tgcacacacg tgcagatatg ctgtccggat acacacgcac 2750
gcacacatgc agatatgctg cctgggcaca cacttccgga cacacatgca 2800
cacacagggtg cagatatgct gcctggacac acgcagactg acgtgctttt 2850
gggaggggtgt gccgtgaagc ctgcagtacg tgtgccgtga ggctcatagt 2900
tgatgagggg ctttccctgc tccaccgtca ctccccaac tctgcccgcc 2950
tctgtccccg cctcagtccc cgctccatc cccgcctctg tcccctggcc 3000
ttggcggcta tttttgccac ctgccttggg tgcccaggag tcccctactg 3050
ctgtgggctg gggttggggg cacagcagcc ccaagcctga gaggtggag 3100
cccatggcta gtggctcatc cccagtgcac tctccccctg acacagagaa 3150
ggggccttgg tattttatatt taagaaatga agataatatt aataatgatg 3200
gaaggaagac tgggttgacg ggactgtggt ctctcctggg gcccgggacc 3250

P2730P1sequencelisting.txt

cgcttggtct ttcagccatg ctgatgacca caccctgtcc aggccagaca 3300
 ccacccccca cccactgtc gtggtggccc cagatctctg taattttatg 3350
 tagagtttga gctgaagccc cgtatatatta atttattttg ttaaacacaa 3400
 aa 3402

<210> 119
 <211> 504
 <212> PRT
 <213> Homo sapiens

<400> 119
 Met Thr Pro Ser Pro Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu
 1 5 10 15
 Leu Gly Ala Phe Pro Pro Ala Ala Ala Ala Arg Gly Pro Pro Lys
 20 25 30
 Met Ala Asp Lys Val Val Pro Arg Gln Val Ala Arg Leu Gly Arg
 35 40 45
 Thr Val Arg Leu Gln Cys Pro Val Glu Gly Asp Pro Pro Pro Leu
 50 55 60
 Thr Met Trp Thr Lys Asp Gly Arg Thr Ile His Ser Gly Trp Ser
 65 70 75
 Arg Phe Arg Val Leu Pro Gln Gly Leu Lys Val Lys Gln Val Glu
 80 85 90
 Arg Glu Asp Ala Gly Val Tyr Val Cys Lys Ala Thr Asn Gly Phe
 95 100 105
 Gly Ser Leu Ser Val Asn Tyr Thr Leu Val Val Leu Asp Asp Ile
 110 115 120
 Ser Pro Gly Lys Glu Ser Leu Gly Pro Asp Ser Ser Ser Gly Gly
 125 130 135
 Gln Glu Asp Pro Ala Ser Gln Gln Trp Ala Arg Pro Arg Phe Thr
 140 145 150
 Gln Pro Ser Lys Met Arg Arg Arg Val Ile Ala Arg Pro Val Gly
 155 160 165
 Ser Ser Val Arg Leu Lys Cys Val Ala Ser Gly His Pro Arg Pro
 170 175 180
 Asp Ile Thr Trp Met Lys Asp Asp Gln Ala Leu Thr Arg Pro Glu
 185 190 195
 Ala Ala Glu Pro Arg Lys Lys Lys Trp Thr Leu Ser Leu Lys Asn
 200 205 210
 Leu Arg Pro Glu Asp Ser Gly Lys Tyr Thr Cys Arg Val Ser Asn
 215 220 225
 Arg Ala Gly Ala Ile Asn Ala Thr Tyr Lys Val Asp Val Ile Gln
 230 235 240
 Arg Thr Arg Ser Lys Pro Val Leu Thr Gly Thr His Pro Val Asn
 245 250 255
 Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys Lys Val
 260 265 270

P2730P1sequencelisting.txt

Arg Ser Asp Val	Lys 275	Pro Val Ile Gln Trp 280	Leu Lys Arg Val	Glu 285
Tyr Gly Ala Glu	Gly 290	Arg His Asn Ser Thr 295	Ile Asp Val Gly	Gly 300
Gln Lys Phe Val	Val 305	Leu Pro Thr Gly Asp 310	Val Trp Ser Arg	Pro 315
Asp Gly Ser Tyr	Leu 320	Asn Lys Leu Leu Ile 325	Thr Arg Ala Arg	Gln 330
Asp Asp Ala Gly	Met 335	Tyr Ile Cys Leu Gly 340	Ala Asn Thr Met	Gly 345
Tyr Ser Phe Arg	Ser 350	Ala Phe Leu Thr Val 355	Leu Pro Asp Pro	Lys 360
Pro Pro Gly Pro	Pro 365	Val Ala Ser Ser Ser 370	Ser Ala Thr Ser	Leu 375
Pro Trp Pro Val	Val 380	Ile Gly Ile Pro Ala 385	Gly Ala Val Phe	Ile 390
Leu Gly Thr Leu	Leu 395	Leu Trp Leu Cys Gln 400	Ala Gln Lys Lys	Pro 405
Cys Thr Pro Ala	Pro 410	Ala Pro Pro Leu Pro 415	Gly His Arg Pro	Pro 420
Gly Thr Ala Arg	Asp 425	Arg Ser Gly Asp Lys 430	Asp Leu Pro Ser	Leu 435
Ala Ala Leu Ser	Ala 440	Gly Pro Gly Val Gly 445	Leu Cys Glu Glu	His 450
Gly Ser Pro Ala	Ala 455	Pro Gln His Leu Leu 460	Gly Pro Gly Pro	Val 465
Ala Gly Pro Lys	Leu 470	Tyr Pro Lys Leu Tyr 475	Thr Asp Ile His	Thr 480
His Thr His Thr	His 485	Ser His Thr His Ser 490	His Val Glu Gly	Lys 495
Val His Gln His	Ile 500	His Tyr Gln Cys		

<210> 120

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 120

cgagatgacg ccgagccccc 20

<210> 121

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 121

cggttcgaca cgcggcaggt g 21

<210> 122

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 122

tgctgctcct gctgccgccg ctgctgctgg gggccttccc gccgg 45

<210> 123

<211> 4420

<212> DNA

<213> Homo sapiens

<400> 123

cccagctgag gagccctgct caagacacgg tcactggatc tgagaaactt 50

cccaggggac cgcattccag agtcagtgac tctgtgaagc acccacatct 100

acctcttgcc acgttcccac gggcttgagg gaaagatggt ggggaccaag 150

gcctgggtgt tctccttcct ggtcctggaa gtcacatctg tgttggggag 200

acagacgatg ctcacccagt cagtaagaag agtccagcct gggaagaaga 250

acccagcat ctttgccaag cctgccgaca ccctggagag ccctggtgag 300

tggacaacat ggttcaacat cgactacca ggcgggaagg gcgactatga 350

gcggtctggac gccattcgct tctactatgg ggaccgtgta tgtgcccgtc 400

ccctgctggc agaggctcgg accactgact ggacacctgc gggcagcact 450

ggccaggtgg tccatggtag tcccctgtag ggtttctggt gcctcaacag 500

ggagcagcgg cctggccaga actgctctaa ttacaccgta cgcttcctct 550

gcccaccagg atccctgcgc cgagacacag agcgcatctg gagcccatgg 600

tctccctgga gcaagtgctc agctgcctgt ggtcagactg ggggccagac 650

tcgcacacgc atttgcttgg cagagatggt gtcgctgtgc agtgaggcca 700

gcgaagaggg tcagcactgc atgggacagg actgtacagc ctgtgacctg 750

acctgccccaa tgggacagggt gaatgctgac tgtgatgcct gcatgtgcca 800

ggacttcattg cttcatgggg ctgtctccct tcccggagggt gccccagcct 850

caggggctgc tatctacctc ctgaccaaga cgccgaagct gctgacctag 900

acagacagtg atgggagatt ccgaatccct ggcttggtgc ctgatggcaa 950

aagcatcctg aagatcacia aggtcaagtt tgccccatt gtactcacia 1000

tgcccaagac tagcctgaag gcagccacca tcaaggcaga gtttgtagag 1050

gcagagactc catacatggt gatgaaccct gagacaaaag cacggagagc 1100

tgggcagagc gtgtctctgt gctgtaaggc cacagggaag cccaggccag 1150

acaagtatct ttggtatcat aatgacacat tgctggatcc ttccctctac 1200

aagcatgaga gcaagctggt gctgaggaaa ctgcagcagc accaggctgg 1250

P2730P1sequencelisting.txt

ggagtacttt tgcaaggccc agagtgatgc tggggctgtg aagtccaagg 1300
 ttgcccagct gattgtcaca gcatctgatg agactccttg caaccagtt 1350
 cctgagagct atcttatccg gctgccccat gattgctttc agaatgccac 1400
 caactccttc tactatgacg tgggacgctg ccctgttaag acttgtgcag 1450
 ggcagcagga taatgggatc aggtgccgtg atgctgtgca gaactgctgt 1500
 ggcattctca agacagagga aaggagatc cagtgcagtg gctacacgct 1550
 accaccaag gtggccaagg agtgcagctg ccagcgggtg acggaaactc 1600
 ggagcatcgt gcggggccgt gtcagtgtg ctgacaatgg ggagcccatg 1650
 cgctttggcc atgtgtacat ggggaacagc cgtgtaagca tgactggcta 1700
 caagggcact ttcaccctcc atgtcccca ggacactgag aggctggtgc 1750
 tcacatttgt ggacaggctg cagaagtttg tcaacaccac caaagtgcta 1800
 cctttcaaca agaaggggag tgccgtgttc catgaaatca agatgcttcg 1850
 tcggaaagag cccatcactt tggaagccat ggagaccaac atcatcccc 1900
 tgggggaagt ggttggtgaa gaccccatgg ctgaactgga gattccatcc 1950
 aggagtttct acaggcagaa tggggagccc tacataggaa aagtgaaggc 2000
 cagtgtgacc ttcctggatc cccggaatat ttccacagcc acagctgccc 2050
 agactgacct gaacttcac aatgacgaag gagacacttt ccccttcgg 2100
 acgtatggca tgttctctgt ggacttcaga gatgaggcca cctcagagcc 2150
 acttaatgct ggcaaagtga aggtccacct tgactcgacc caggtaaga 2200
 tgccagagca catatccaca gtgaaactct ggtcactcaa tccagacaca 2250
 gggctgtggg aggaggaagg tgatttcaaa tttgaaaatc aaaggaggaa 2300
 caaaagagaa gacagaacct tcctggtggg caacctggag attcgtgaga 2350
 ggaggctctt taacctggat gttcctgaaa gcaggcgggtg ctttgtaag 2400
 gtgagggcct accggagtga gaggttcttg cctagtgagc agatccaggg 2450
 ggttgtgatc tccgtgatta acctggagcc tagaactggc ttcttgcca 2500
 accctagggc ctggggccgc tttgacagtg tcatcacagg cccaacggg 2550
 gcctgtgtgc ctgccttctg tgatgaccag tcccctgatg cctactctgc 2600
 ctatgtcttg gcaagcctgg ctggggagga actgcaagca gtggagtctt 2650
 ctctaaatt caaccctaat gcaattggcg tccctcagcc ctatctcaac 2700
 aagctcaact accgtcggac ggaccatgag gatccacggg ttaaaaagac 2750
 agctttccag attagcatgg ccaagccaag gcccaactca gctgaggaga 2800
 gcaatgggcc catctatgcc tttgagaacc tccgggcatg tgaagaggca 2850
 ccaccagtg cagccactt ccggttctac cagattgagg gggatcgata 2900
 tgactacaac acagtcccct tcaacgaaga tgaccctatg agctggactg 2950

P2730P1sequencelisting.txt

aagactatct ggcattggtgg ccaaagccga tgggaattcag ggcctgctat 3000
atcaagggtga agattgtggg gccactggaa gtgaatgtgc gatcccgcaa 3050
catggggggc actcatcggc ggacagtggg gaagctgtat ggaatccgag 3100
atgtgaggag cactcgggac agggaccagc ccaatgtctc agctgcctgt 3150
ctggagttca agtgcagtgg gatgctctat gatcaggacc gtgtggaccg 3200
caccctggtg aagggtcatcc cccagggcag ctgccgtcga gccagtgtga 3250
accccatgct gcatgagtac ctggtcaacc acttgccact tgcagtcaac 3300
aacgacacca gtgagtacac catgctggca cccttgacc cactgggcca 3350
caactatggc atctacactg tcaactgacca ggaccctcgc acggccaagg 3400
agatcgcgct cggccggtgc tttgatggca catccgatgg ctctccaga 3450
atcatgaaga gcaatgtggg agtagccctc accttcaact gtgtagagag 3500
gcaagtaggc cgccagagtg ccttccagta cctccaaagc accccagccc 3550
agtcccctgc tgcaggcact gtccaaggaa gagtgccctc gaggaggcag 3600
cagcgagcga gcaggggtgg ccagcgccag ggtggagtgg tggcctctct 3650
gagatttcct agagttgctc aacagcccct gatcaactaa gttttgtggt 3700
acttcaccct cttctgccct catttcatgt gacagccatt gtgagactga 3750
tgcacaaact gtcacttggg taatttaagc acttctgttt tcgtgaattt 3800
gcttgtttgt ttcttcatgc ctttacttac tttgtcccat gctactgatt 3850
ggcacgtggc ccccaaatg gcacaataaa gccccttgt gaaactgttc 3900
tttaaatgaa acacaagaaa ttggccactg gtaaaactct gcagcttcaa 3950
ctgtacttca tttaatgcca ttaatgcaaa tatacttcct cttctttttg 4000
catggttttg cccacctctg caatagtgat aatctgatgc tgaagatcaa 4050
ataaccaata taaagcatat ttcttggcct tgctccacag gacataggca 4100
agccttgatc atagttcata catataaatg gtggtgaaat aaagaaataa 4150
aacacaatac ttttacttga aatgtaaata acttatttat ttctttgcta 4200
aatttggaat tctagtgcac attcaaagtt aagctattaa atatagggtg 4250
atcatagttc ctctaccaag tctggaaaga acatctcctg gtatccacaa 4300
ttacaccagg ttgctaactg tatttgtaca tttccctttg cattcgcttt 4350
tgttcttgct agaaaccag ttagagccag ggcagatgtc aataaatgca 4400
tactctgtat ttcgaaaaaa 4420

<210> 124

<211> 1184

<212> PRT

<213> Homo sapiens

<400> 124

Met Val Gly Thr Lys Ala Trp Val Phe Ser Phe Leu Val Leu Glu

P2730P1sequencelisting.txt

1	5	10	15
Val Thr Ser Val	Leu Gly Arg Gln Thr Met	Leu Thr Gln Ser Val	
	20	25	30
Arg Arg Val Gln	Pro Gly Lys Lys Asn Pro	Ser Ile Phe Ala Lys	
	35	40	45
Pro Ala Asp Thr	Leu Glu Ser Pro Gly Glu	Trp Thr Thr Trp Phe	
	50	55	60
Asn Ile Asp Tyr	Pro Gly Gly Lys Gly Asp	Tyr Glu Arg Leu Asp	
	65	70	75
Ala Ile Arg Phe	Tyr Tyr Gly Asp Arg Val	Cys Ala Arg Pro Leu	
	80	85	90
Arg Leu Glu Ala	Arg Thr Thr Asp Trp Thr	Pro Ala Gly Ser Thr	
	95	100	105
Gly Gln Val Val	His Gly Ser Pro Arg Glu	Gly Phe Trp Cys Leu	
	110	115	120
Asn Arg Glu Gln	Arg Pro Gly Gln Asn Cys	Ser Asn Tyr Thr Val	
	125	130	135
Arg Phe Leu Cys	Pro Pro Gly Ser Leu Arg	Arg Asp Thr Glu Arg	
	140	145	150
Ile Trp Ser Pro	Trp Ser Pro Trp Ser Lys	Cys Ser Ala Ala Cys	
	155	160	165
Gly Gln Thr Gly	Val Gln Thr Arg Thr Arg	Ile Cys Leu Ala Glu	
	170	175	180
Met Val Ser Leu	Cys Ser Glu Ala Ser Glu	Glu Gly Gln His Cys	
	185	190	195
Met Gly Gln Asp	Cys Thr Ala Cys Asp Leu	Thr Cys Pro Met Gly	
	200	205	210
Gln Val Asn Ala	Asp Cys Asp Ala Cys Met	Cys Gln Asp Phe Met	
	215	220	225
Leu His Gly Ala	Val Ser Leu Pro Gly Gly	Ala Pro Ala Ser Gly	
	230	235	240
Ala Ala Ile Tyr	Leu Leu Thr Lys Thr Pro	Lys Leu Leu Thr Gln	
	245	250	255
Thr Asp Ser Asp	Gly Arg Phe Arg Ile Pro	Gly Leu Cys Pro Asp	
	260	265	270
Gly Lys Ser Ile	Leu Lys Ile Thr Lys Val	Lys Phe Ala Pro Ile	
	275	280	285
Val Leu Thr Met	Pro Lys Thr Ser Leu Lys	Ala Ala Thr Ile Lys	
	290	295	300
Ala Glu Phe Val	Arg Ala Glu Thr Pro Tyr	Met Val Met Asn Pro	
	305	310	315
Glu Thr Lys Ala	Arg Arg Ala Gly Gln Ser	Val Ser Leu Cys Cys	
	320	325	330
Lys Ala Thr Gly	Lys Pro Arg Pro Asp Lys	Tyr Phe Trp Tyr His	
	335	340	345

P2730P1sequencelisting.txt

Asn Asp Thr Leu	Leu Asp Pro Ser Leu Tyr Lys His Glu Ser	Lys
350	355	360
Leu Val Leu Arg	Lys Leu Gln Gln His Gln Ala Gly Glu Tyr	Phe
365	370	375
Cys Lys Ala Gln	Ser Asp Ala Gly Ala Val Lys Ser Lys Val	Ala
380	385	390
Gln Leu Ile Val	Thr Ala Ser Asp Glu Thr Pro Cys Asn Pro	Val
395	400	405
Pro Glu Ser Tyr	Leu Ile Arg Leu Pro His Asp Cys Phe Gln	Asn
410	415	420
Ala Thr Asn Ser	Phe Tyr Tyr Asp Val Gly Arg Cys Pro Val	Lys
425	430	435
Thr Cys Ala Gly	Gln Gln Asp Asn Gly Ile Arg Cys Arg Asp	Ala
440	445	450
Val Gln Asn Cys	Cys Gly Ile Ser Lys Thr Glu Glu Arg Glu	Ile
455	460	465
Gln Cys Ser Gly	Tyr Thr Leu Pro Thr Lys Val Ala Lys Glu	Cys
470	475	480
Ser Cys Gln Arg	Cys Thr Glu Thr Arg Ser Ile Val Arg Gly	Arg
485	490	495
Val Ser Ala Ala	Asp Asn Gly Glu Pro Met Arg Phe Gly His	Val
500	505	510
Tyr Met Gly Asn	Ser Arg Val Ser Met Thr Gly Tyr Lys Gly	Thr
515	520	525
Phe Thr Leu His	Val Pro Gln Asp Thr Glu Arg Leu Val Leu	Thr
530	535	540
Phe Val Asp Arg	Leu Gln Lys Phe Val Asn Thr Thr Lys Val	Leu
545	550	555
Pro Phe Asn Lys	Lys Gly Ser Ala Val Phe His Glu Ile Lys	Met
560	565	570
Leu Arg Arg Lys	Glu Pro Ile Thr Leu Glu Ala Met Glu Thr	Asn
575	580	585
Ile Ile Pro Leu	Gly Glu Val Val Gly Glu Asp Pro Met Ala	Glu
590	595	600
Leu Glu Ile Pro	Ser Arg Ser Phe Tyr Arg Gln Asn Gly Glu	Pro
605	610	615
Tyr Ile Gly Lys	Val Lys Ala Ser Val Thr Phe Leu Asp Pro	Arg
620	625	630
Asn Ile Ser Thr	Ala Thr Ala Ala Gln Thr Asp Leu Asn Phe	Ile
635	640	645
Asn Asp Glu Gly	Asp Thr Phe Pro Leu Arg Thr Tyr Gly Met	Phe
650	655	660
Ser Val Asp Phe	Arg Asp Glu Val Thr Ser Glu Pro Leu Asn	Ala
665	670	675
Gly Lys Val Lys	Val His Leu Asp Ser Thr Gln Val Lys Met	Pro
680	685	690

P2730P1sequencelisting.txt

Glu His Ile Ser	Thr 695	Val Lys Leu Trp	Ser 700	Leu Asn Pro Asp	Thr 705
Gly Leu Trp Glu	Glu 710	Glu Gly Asp Phe	Lys 715	Phe Glu Asn Gln	Arg 720
Arg Asn Lys Arg	Glu 725	Asp Arg Thr Phe	Leu 730	Val Gly Asn Leu	Glu 735
Ile Arg Glu Arg	Arg 740	Leu Phe Asn Leu	Asp 745	Val Pro Glu Ser	Arg 750
Arg Cys Phe Val	Lys 755	Val Arg Ala Tyr	Arg 760	Ser Glu Arg Phe	Leu 765
Pro Ser Glu Gln	Ile 770	Gln Gly Val Val	Ile 775	Ser Val Ile Asn	Leu 780
Glu Pro Arg Thr	Gly 785	Phe Leu Ser Asn	Pro 790	Arg Ala Trp Gly	Arg 795
Phe Asp Ser Val	Ile 800	Thr Gly Pro Asn	Gly 805	Ala Cys Val Pro	Ala 810
Phe Cys Asp Asp	Gln 815	Ser Pro Asp Ala	Tyr 820	Ser Ala Tyr Val	Leu 825
Ala Ser Leu Ala	Gly 830	Glu Glu Leu Gln	Ala 835	Val Glu Ser Ser	Pro 840
Lys Phe Asn Pro	Asn 845	Ala Ile Gly Val	Pro 850	Gln Pro Tyr Leu	Asn 855
Lys Leu Asn Tyr	Arg 860	Arg Thr Asp His	Glu 865	Asp Pro Arg Val	Lys 870
Lys Thr Ala Phe	Gln 875	Ile Ser Met Ala	Lys 880	Pro Arg Pro Asn	Ser 885
Ala Glu Glu Ser	Asn 890	Gly Pro Ile Tyr	Ala 895	Phe Glu Asn Leu	Arg 900
Ala Cys Glu Glu	Ala 905	Pro Pro Ser Ala	Ala 910	His Phe Arg Phe	Tyr 915
Gln Ile Glu Gly	Asp 920	Arg Tyr Asp Tyr	Asn 925	Thr Val Pro Phe	Asn 930
Glu Asp Asp Pro	Met 935	Ser Trp Thr Glu	Asp 940	Tyr Leu Ala Trp	Trp 945
Pro Lys Pro Met	Glu 950	Phe Arg Ala Cys	Tyr 955	Ile Lys Val Lys	Ile 960
Val Gly Pro Leu	Glu 965	Val Asn Val Arg	Ser 970	Arg Asn Met Gly	Gly 975
Thr His Arg Arg	Thr 980	Val Gly Lys Leu	Tyr 985	Gly Ile Arg Asp	Val 990
Arg Ser Thr Arg	Asp 995	Arg Asp Gln Pro	Asn 1000	Val Ser Ala Ala	Cys 1005
Leu Glu Phe Lys	Cys 1010	Ser Gly Met Leu	Tyr 1015	Asp Gln Asp Arg	Val 1020
Asp Arg Thr Leu	Val Lys Val Ile	Pro Gln Gly Ser	Cys Arg Arg		

P2730P1sequencelisting.txt

```

1025                               1030                               1035
Ala Ser Val Asn Pro Met Leu His Glu Tyr Leu Val Asn His Leu
1040                               1045                               1050
Pro Leu Ala Val Asn Asn Asp Thr Ser Glu Tyr Thr Met Leu Ala
1055                               1060                               1065
Pro Leu Asp Pro Leu Gly His Asn Tyr Gly Ile Tyr Thr Val Thr
1070                               1075                               1080
Asp Gln Asp Pro Arg Thr Ala Lys Glu Ile Ala Leu Gly Arg Cys
1085                               1090                               1095
Phe Asp Gly Thr Ser Asp Gly Ser Ser Arg Ile Met Lys Ser Asn
1100                               1105                               1110
Val Gly Val Ala Leu Thr Phe Asn Cys Val Glu Arg Gln Val Gly
1115                               1120                               1125
Arg Gln Ser Ala Phe Gln Tyr Leu Gln Ser Thr Pro Ala Gln Ser
1130                               1135                               1140
Pro Ala Ala Gly Thr Val Gln Gly Arg Val Pro Ser Arg Arg Gln
1145                               1150                               1155
Gln Arg Ala Ser Arg Gly Gly Gln Arg Gln Gly Gly Val Val Ala
1160                               1165                               1170
Ser Leu Arg Phe Pro Arg Val Ala Gln Gln Pro Leu Ile Asn
1175                               1180

```

<210> 125

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 125

ctggtgcctc aacagggagc ag 22

<210> 126

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 126

ccattgtgca ggtcaggtca cag 23

<210> 127

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 127

ctggagcaag tgctcagctg cctgtgggtca gactgggggtc 40

<210> 128

<211> 2819

<212> DNA

<213> Homo sapiens

<400> 128

```

ctgcaagttg ttaacgccta acacacaagt atgttaggct tccaccaaag 50
tcctcaatat acctgaatac gcacaatatc ttaactcttc atatttggtt 100
ttgggatctg ctttgagggtc ccattcttcat ttaaaaaaaaa atacagagac 150
ctacctaccc gtacgcatac atacatatgt gtatatatat gtaaactaga 200
caaagatcgc agatcataaa gcaagctctg ctttagtttc caagaagatt 250
acaaagaatt tagagatgta tttgtcaaga tccctgtcga ttcattgccct 300
ttgggttacg gtgtcctcag tgatgcagcc ctaccctttg gtttggggac 350
attatgattt gtgtaagact cagatttaca cggaagaagg gaaagtttgg 400
gattacatgg cctgccagcc ggaatccacg gacatgacaa aatatctgaa 450
agtgaactc gatcctccgg atattacctg tggagaccct cctgagacgt 500
tctgtgcaat gggcaatccc tacatgtgca ataatgagtg tgatgagagt 550
acccctgagc tggcacaccc ccctgagctg atgtttgatt ttgaaggaag 600
acatccctcc acattttggc agtctgccac ttggaaggag tatcccaagc 650
ctctccaggt taacatcact ctgtcttggg gcaaaaccat tgagctaaca 700
gacaacatag ttattacctt tgaatctggg cgtccagacc aaatgatcct 750
ggagaagtct ctcgattatg gacgaacatg gcagccctat cagtattatg 800
ccacagactg cttagatgct ttccacatgg atcctaaatc cgtgaaggat 850
ttatcacagc atacggtctt agaaatcatt tgcacagaag agtactcaac 900
aggtatatac acaaatagca aaataatcca ctttgaaatc aaagacaggt 950
tcgcgctttt tgctggacct cgcttacgca atatggcttc cctctacgga 1000
cagctggata caaccaagaa actcagagat ttctttacag tcacagacct 1050
gaggataagg ctgttaagac cagccgttgg ggaaatattt gtagatgagc 1100
tacacttggc acgctacttt tacgcgatct cagacataaa ggtgagagga 1150
aggtgcaagt gtaatctcca tgccactgta tgtgtgtatg acaacagcaa 1200
attgacatgc gaatgtgagc acaacactac aggtccagac tgtgggaaat 1250
gcaagaagaa ttatcagggc cgaccttggg gtccaggctc ctatctcccc 1300
atcccccag gcaactgcaa tacctgtatc cccagtattt ccagtattgg 1350
tacgaatgtc tgcgacaacg agctcctgca ctgccagaac ggagggacgt 1400
gccacaacaa cgtgcgctgc ctgtgcccgg ccgcatacac gggcatcctc 1450
tgcgagaagc tgcggtgcga ggaggctggc agctgaggct ccgactctgg 1500
ccagggcgcg ccccgccacg gcaccccgag gctgctgctg ctgaccacgc 1550
tgctgggaac cgccagcccc ctggtgttct aggtgtcacc tccagccaca 1600
ccggacgggc ctgtgccgtg gggaagcaga cacaacccaa acatttgcta 1650

```

P2730P1sequencelisting.txt

ctaacatagg aaacacacac atacagacac cccactcag acagtgtaca 1700
aactaagaag gcctaactga actaagccat atttatcacc cgtggacagc 1750
acatccgagt caagactggt aatttctgac tccagaggag ttggcagctg 1800
ttgatattat cactgcaa at cacattgcc gctgcagagc atattgtgga 1850
ttggaaaggc tgcgacagcc ccccaaacag gaaagacaaa aaacaaacaa 1900
atcaaccgac ctaaaaacat tggctactct agcgtggtgc gccctagtac 1950
gactccgccc agtgtgtgga ccaaccaa at agcattcttt gctgtcaggt 2000
gcattgtggg cataaggaaa tctgttacia gctgccatat tggcctgctt 2050
ccgtccctga atcccttcca acctgtgctt tagtgaacgt tgctctgtaa 2100
ccctcgttgg ttgaaagatt tctttgtctg atgttagtga tgcacatgtg 2150
taacagcccc ctctaaaagc gcaagccagt catacccctg tatatcttag 2200
cagcactgag tccagtgcga gcacacaccc actatacaag agtggctata 2250
ggaaaaaaga aagtgtatct atccttttgt attcaa atga agttattttt 2300
cttgaactac tgtaatatgt agattttttg tattattgcc aatttgtgtt 2350
accagacaat ctgtta atgt atctaatctg aatcagcaaa gactgacatt 2400
ttattttgtc ctctttcggt ctgtttgtgt tcaactgtgca gagatttctc 2450
tgtaagggca acgaacgtgc tggcatcaaa gaatatcagt ttacatatat 2500
aacaagtgtg ataagattcc accaaaggac attctaaatg ttttcttggt 2550
gctttaacac tggaagattt aaagaataaa aactcctgca taaacgattt 2600
caggaatttg tattgcaatt tcttaagatg aaaggaacag ccaccaagca 2650
gtttcacact cactttactg atttctgtgt ggactgagta cattcagctg 2700
acgaatttag ttcccaggaa gatggattga tgttcactag cttggacaac 2750
ttctgcaaaa tatgagacta tttccacttg ggaaaaatta caacagcaaa 2800
aaaaaaaaa aaaaaaaaa 2819

<210> 129

<211> 438

<212> PRT

<213> Homo sapiens

<400> 129

Met Tyr Leu Ser Arg Ser Leu Ser Ile His Ala Leu Trp Val Thr
1 5 10 15

Val Ser Ser Val Met Gln Pro Tyr Pro Leu Val Trp Gly His Tyr
20 25 30

Asp Leu Cys Lys Thr Gln Ile Tyr Thr Glu Glu Gly Lys Val Trp
35 40 45

Asp Tyr Met Ala Cys Gln Pro Glu Ser Thr Asp Met Thr Lys Tyr
50 55 60

Leu Lys Val Lys Leu Asp Pro Pro Asp Ile Thr Cys Gly Asp Pro
Page 108

P2730P1sequencelisting.txt

65	70	75
Pro Glu Thr Phe Cys 80	Ala Met Gly Asn Pro 85	Tyr Met Cys Asn Asn 90
Glu Cys Asp Ala Ser 95	Thr Pro Glu Leu Ala 100	His Pro Pro Glu Leu 105
Met Phe Asp Phe Glu 110	Gly Arg His Pro Ser 115	Thr Phe Trp Gln Ser 120
Ala Thr Trp Lys Glu 125	Tyr Pro Lys Pro Leu 130	Gln Val Asn Ile Thr 135
Leu Ser Trp Ser Lys 140	Thr Ile Glu Leu Thr 145	Asp Asn Ile Val Ile 150
Thr Phe Glu Ser Gly 155	Arg Pro Asp Gln Met 160	Ile Leu Glu Lys Ser 165
Leu Asp Tyr Gly Arg 170	Thr Trp Gln Pro Tyr 175	Gln Tyr Tyr Ala Thr 180
Asp Cys Leu Asp Ala 185	Phe His Met Asp Pro 190	Lys Ser Val Lys Asp 195
Leu Ser Gln His Thr 200	Val Leu Glu Ile Ile 205	Cys Thr Glu Glu Tyr 210
Ser Thr Gly Tyr Thr 215	Thr Asn Ser Lys Ile 220	Ile His Phe Glu Ile 225
Lys Asp Arg Phe Ala 230	Leu Phe Ala Gly Pro 235	Arg Leu Arg Asn Met 240
Ala Ser Leu Tyr Gly 245	Gln Leu Asp Thr Thr 250	Lys Lys Leu Arg Asp 255
Phe Phe Thr Val Thr 260	Asp Leu Arg Ile Arg 265	Leu Leu Arg Pro Ala 270
Val Gly Glu Ile Phe 275	Val Asp Glu Leu His 280	Leu Ala Arg Tyr Phe 285
Tyr Ala Ile Ser Asp 290	Ile Lys Val Arg Gly 295	Arg Cys Lys Cys Asn 300
Leu His Ala Thr Val 305	Cys Val Tyr Asp Asn 310	Ser Lys Leu Thr Cys 315
Glu Cys Glu His Asn 320	Thr Thr Gly Pro Asp 325	Cys Gly Lys Cys Lys 330
Lys Asn Tyr Gln Gly 335	Arg Pro Trp Ser Pro 340	Gly Ser Tyr Leu Pro 345
Ile Pro Lys Gly Thr 350	Ala Asn Thr Cys Ile 355	Pro Ser Ile Ser Ser 360
Ile Gly Thr Asn Val 365	Cys Asp Asn Glu Leu 370	Leu His Cys Gln Asn 375
Gly Gly Thr Cys His 380	Asn Asn Val Arg Cys 385	Leu Cys Pro Ala Ala 390
Tyr Thr Gly Ile Leu 395	Cys Glu Lys Leu Arg 400	Cys Glu Glu Ala Gly 405

P2730P1sequencelisting.txt

Ser Cys Gly Ser Asp Ser Gly Gln Gly Ala Pro Pro His Gly Thr
410 415 420

Pro Ala Leu Leu Leu Leu Thr Thr Leu Leu Gly Thr Ala Ser Pro
425 430 435

Leu Val Phe

<210> 130

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 130

tcgattatgg acgaacatgg cagg 24

<210> 131

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 131

ttctgagatc cctcatcctc 20

<210> 132

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 132

aggttcaggg acagcaagtt tggg 24

<210> 133

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 133

tttgctggac ctcggtacg gaattggctt ccctctacgg acagctggat 50

<210> 134

<211> 1493

<212> DNA

<213> Homo sapiens

<400> 134

cccacgcgtc cgggtgacct gggccgagcc ctcccgggtcg gctaagattg 50

ctgaggaggc ggcgggtagc tggcaggcgc cgacttccga aggccgccgt 100

ccgggacgagg tgcctcatg acttctcttg tggaccatgt ccgtgatcctt 150

ttttgcctgc gtggtacggg taagggatgg actgcccctc tcagcctcta 200

ctgattttta ccacacccaa gatttttttg aatggaggag acggctcaag 250

P2730P1sequencelisting.txt

agtttagcct tgcgactggc ccagtatcca ggtcgagggt ctgcagaagg 300
 ttgtgacttt agtatacatt tttcttcttt cggggacgtg gcctgcatgg 350
 ctatctgctc ctgccagtgt ccagcagcca tggccttctg cttcctggag 400
 accctgtggg ggggaattcac agcttcctat gacactacct gcattggcct 450
 agcctccagg ccatacgctt ttcttgagtt tgacagcatc attcagaaaag 500
 tgaagtggca ttttaactat gtaagttcct ctcagatgga gtgcagcttg 550
 gaaaaaattc aggaggagct caagttgcag cctccagcgg ttctcactct 600
 ggaggacaca gatgtggcaa atgggggtgat gaatgggtcac acaccgatgc 650
 acttggagcc tgctcctaata tccgaatgg aaccagtgc agccctgggt 700
 atcctctccc tcattctcaa catcatgtgt gctgccctga atctcattcg 750
 aggagttcac cttgcagaac attctttaca ggatccaagg agctgggttct 800
 gctggttgga ccaaacctcg tgagccagcc acccctgacc caaatgagga 850
 gagctctgat tctcccatcc gggagcagtg atgtcaaact tctgctgctg 900
 gggaaatctc atcagcaggg agcctgtgga aaagggcatg tcagtgaat 950
 ctgggaatgg ctggattcgg aaacatctgc ccatgtgtat tgatggcaga 1000
 gctgttgccc acaagcgctt ttattttagg gtaaaattaa caaatccatt 1050
 ctattcctct gacccatgct tagtacatat gacctttaac cttacattt 1100
 atatgattct ggggttgctt cagaagtgtt atttcatgaa tcattcatat 1150
 gatttgatcc cccaggattc tattttgttt aatgggcttt tctactaaaa 1200
 gcataaaata ctgaggctga tttagtcagg gcaaaaccat ttactttaca 1250
 tattcgtttt caatacttgc tgttcatgtt acacaagctt cttacggttt 1300
 tcttgtaaca ataaatattt tgagtaaata atgggtacat tttaacaaac 1350
 tcagtagtac aacctaaact tgtataaaag tgtgtaaaaa tgtatagcca 1400
 tttatatcct atgtataaat taaatgaggt ggcttcagaa atggcagaat 1450
 aaatctaaag tgttttattaa aaaaaaaaaa aaaaaaaaaa aag 1493

<210> 135

<211> 228

<212> PRT

<213> Homo sapiens

<400> 135

Met	Ser	Val	Ile	Phe	Phe	Ala	Cys	Val	Val	Arg	Val	Arg	Asp	Gly
1				5					10					15
Leu	Pro	Leu	Ser	Ala	Ser	Thr	Asp	Phe	Tyr	His	Thr	Gln	Asp	Phe
				20					25					30
Leu	Glu	Trp	Arg	Arg	Arg	Leu	Lys	Ser	Leu	Ala	Leu	Arg	Leu	Ala
				35					40					45
Gln	Tyr	Pro	Gly	Arg	Gly	Ser	Ala	Glu	Gly	Cys	Asp	Phe	Ser	Ile
				50					55					60

P2730P1sequencelisting.txt

His Phe Ser Ser Phe Gly Asp Val Ala Cys Met Ala Ile Cys Ser
65 70 75
Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe Leu Glu Thr Leu
80 85 90
Trp Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys Ile Gly Leu
95 100 105
Ala Ser Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile Ile Gln
110 115 120
Lys Val Lys Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met Glu
125 130 135
Cys Ser Leu Glu Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro
140 145 150
Ala Val Leu Thr Leu Glu Asp Thr Asp Val Ala Asn Gly Val Met
155 160 165
Asn Gly His Thr Pro Met His Leu Glu Pro Ala Pro Asn Phe Arg
170 175 180
Met Glu Pro Val Thr Ala Leu Gly Ile Leu Ser Leu Ile Leu Asn
185 190 195
Ile Met Cys Ala Ala Leu Asn Leu Ile Arg Gly Val His Leu Ala
200 205 210
Glu His Ser Leu Gln Asp Pro Arg Ser Trp Phe Cys Trp Leu Asp
215 220 225

Gln Thr Ser

<210> 136
<211> 239
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 39, 61, 143, 209
<223> unknown base

<400> 136
tgcttcctgg agaccctgtg gtggaattc acagcttcnt atgacactac 50
ctgcattggc ntaccccca gccatacgc ttttcttgag ttgacagca 100
tcattcagaa agtgaagtgg cattttaact atgtaagttc cntcagatg 150
gagtgcagct tggaaaaaat tcaggaggag ctcaagttgc agcctccagc 200
ggttctcant atggaggaca cagatgtggc aaatgggggt 239

<210> 137
<211> 2300
<212> DNA
<213> Homo sapiens

<400> 137
ctcagcggcg cttcctcgta gcgagcctag tggcgggtgt ttgcattgaa 50
acgtgagcgc gacccgacct taaagagtgg ggagcaaagg gaggacagag 100

P2730P1sequencelisting.txt

ccctttaaaa cgaggcgggt ggtgcctgcc cctttaaggg cggggcgtcc 150
ggacgactgt atctgagccc cagactgccc cgagtttctg tcgcaggctg 200
cgaggaaagg cccctaggct gggctctgggt gcttggcggc ggcggcttcc 250
tccccgctcg tcctccccgg gccagaggc acctcggctt cagtcagtct 300
gagcagagta tggagcacc tgactacgaa gtgctatccg tgcgagaaca 350
gctattccac gagaggatcc gcgagtgtat tatatcaaca cttctgtttg 400
caacactgta catcctctgc cacatcttcc tgaccgctt caagaagcct 450
gctgagttca ccacagtgga tgatgaagat gccaccgtca acaagattgc 500
gctcgagctg tgcaccttta ccctggcaat tgccctgggt gctgtcctgc 550
tcctgccctt ctccatcacc agcaatgagg tgctgctctc cctgcctcgg 600
aactactaca tccagtggct caacggctcc ctcatccatg gcctctggaa 650
ccttgttttt ctcttcccca acctgtccct catcttctc atgccctttg 700
catatttctt cactgagtct gagggtttt ctggctccag aaagggtgtc 750
ctgggccggg tctatgagac agtgggtgat ttgatgtcc tcaactctgct 800
ggtgctaggt atggtgtggg tggcatcagc cattgtggac aagaacaagg 850
ccaacagaga gtcactctat gacttttggg agtactatct cccctacctc 900
tactcatgca tctccttct tggggttctg ctgctcctgg tgtgtactcc 950
actgggtctc gcccgcatgt tctccgtcac tgggaagctg ctagtcaagc 1000
cccggctgct ggaagacctg gaggagcagc tgtactgctc agcctttgag 1050
gaggcagccc tgaccgcag gatctgtaat cctacttctt gctggctgcc 1100
ttagacatg gagctgctac acagacaggt cctggctctg cagacacaga 1150
gggtcctgct ggagaagagg cggaaggctt cagcctggca acggaacctg 1200
ggctaccccc tggctatgct gtgcttgctg gtgctgacgg gcctgtctgt 1250
gctcattgtg gccatccaca tcctggagct gctcatcgat gaggctgcca 1300
tgccccgagg catgcagggt acctccttag gccaggctc cttctccaag 1350
ctgggctcct ttggtgccgt cattcagggt gtactcatct ttacctaata 1400
ggtgtcctca gttgtgggt tctatagctc tccactctc cggagcctgc 1450
ggcccagatg gcacgacct gccatgacgc agataattgg gaactgtgtc 1500
tgtctcctgg tcctaagctc agcacttctt gtcttctctc gaaccctggg 1550
gctcactcgc ttgacctgc tgggtgactt tggacgcttc aactggctgg 1600
gcaatttcta cattgtgttc ctctacaacg cagcctttgc aggcctcacc 1650
acactctgtc tgggtgaagac cttactgca gctgtgcggg cagagctgat 1700
ccgggccttt gggctggaca gactgccgt gcccgctctc gggttcccc 1750
aggcatctag gaagaccag caccagtgc ctccagctgg ggggtgggaag 1800

P2730P1sequencelisting.txt

gaaaaaactg gacactgccca tctgctgcct aggcctggag ggaagcccaa 1850
 ggctacttgg acctcaggac ctggaatctg agagggtggg tggcagaggg 1900
 gagcagagcc atctgcacta ttgcataatc tgagccagag tttgggacca 1950
 ggacctcctg cttttccata cttaactgtg gcctcagcat ggggtagggc 2000
 tgggtgactg ggtctagccc ctgatcccaa atctgtttac acatcaatct 2050
 gcctcactgc tgttctgggc catccccata gccatgttta catgatttga 2100
 tgtgcaatag ggtggggtag gggcagggaa aggactgggc cagggcaggc 2150
 tcgggagata gattgtctcc cttgcctctg gccagcaga gcctaagcac 2200
 tgtgctatcc tggaggggct ttggaccacc tgaaagacca aggggatagg 2250
 gaggaggagg cttcagccat cagcaataaa gttgatccca gggaaaaaaa 2300

<210> 138

<211> 489

<212> PRT

<213> Homo sapiens

<400> 138

Met	Glu	Ala	Pro	Asp	Tyr	Glu	Val	Leu	Ser	Val	Arg	Glu	Gln	Leu	1	5	10	15
Phe	His	Glu	Arg	Ile	Arg	Glu	Cys	Ile	Ile	Ser	Thr	Leu	Leu	Phe	20	25	30	
Ala	Thr	Leu	Tyr	Ile	Leu	Cys	His	Ile	Phe	Leu	Thr	Arg	Phe	Lys	35	40	45	
Lys	Pro	Ala	Glu	Phe	Thr	Thr	Val	Asp	Asp	Glu	Asp	Ala	Thr	Val	50	55	60	
Asn	Lys	Ile	Ala	Leu	Glu	Leu	Cys	Thr	Phe	Thr	Leu	Ala	Ile	Ala	65	70	75	
Leu	Gly	Ala	Val	Leu	Leu	Leu	Pro	Phe	Ser	Ile	Ile	Ser	Asn	Glu	80	85	90	
Val	Leu	Leu	Ser	Leu	Pro	Arg	Asn	Tyr	Tyr	Ile	Gln	Trp	Leu	Asn	95	100	105	
Gly	Ser	Leu	Ile	His	Gly	Leu	Trp	Asn	Leu	Val	Phe	Leu	Phe	Pro	110	115	120	
Asn	Leu	Ser	Leu	Ile	Phe	Leu	Met	Pro	Phe	Ala	Tyr	Phe	Phe	Thr	125	130	135	
Glu	Ser	Glu	Gly	Phe	Ala	Gly	Ser	Arg	Lys	Gly	Val	Leu	Gly	Arg	140	145	150	
Val	Tyr	Glu	Thr	Val	Val	Met	Leu	Met	Leu	Leu	Thr	Leu	Leu	Val	155	160	165	
Leu	Gly	Met	Val	Trp	Val	Ala	Ser	Ala	Ile	Val	Asp	Lys	Asn	Lys	170	175	180	
Ala	Asn	Arg	Glu	Ser	Leu	Tyr	Asp	Phe	Trp	Glu	Tyr	Tyr	Leu	Pro	185	190	195	
Tyr	Leu	Tyr	Ser	Cys	Ile	Ser	Phe	Leu	Gly	Val	Leu	Leu	Leu	Leu	200	205	210	

P2730P1sequencelisting.txt

Val	Cys	Thr	Pro	Leu	Gly	Leu	Ala	Arg	Met	Phe	Ser	Val	Thr	Gly
				215					220					225
Lys	Leu	Leu	Val	Lys	Pro	Arg	Leu	Leu	Glu	Asp	Leu	Glu	Glu	Gln
				230					235					240
Leu	Tyr	Cys	Ser	Ala	Phe	Glu	Glu	Ala	Ala	Leu	Thr	Arg	Arg	Ile
				245					250					255
Cys	Asn	Pro	Thr	Ser	Cys	Trp	Leu	Pro	Leu	Asp	Met	Glu	Leu	Leu
				260					265					270
His	Arg	Gln	Val	Leu	Ala	Leu	Gln	Thr	Gln	Arg	Val	Leu	Leu	Glu
				275					280					285
Lys	Arg	Arg	Lys	Ala	Ser	Ala	Trp	Gln	Arg	Asn	Leu	Gly	Tyr	Pro
				290					295					300
Leu	Ala	Met	Leu	Cys	Leu	Leu	Val	Leu	Thr	Gly	Leu	Ser	Val	Leu
				305					310					315
Ile	Val	Ala	Ile	His	Ile	Leu	Glu	Leu	Leu	Ile	Asp	Glu	Ala	Ala
				320					325					330
Met	Pro	Arg	Gly	Met	Gln	Gly	Thr	Ser	Leu	Gly	Gln	Val	Ser	Phe
				335					340					345
Ser	Lys	Leu	Gly	Ser	Phe	Gly	Ala	Val	Ile	Gln	Val	Val	Leu	Ile
				350					355					360
Phe	Tyr	Leu	Met	Val	Ser	Ser	Val	Val	Gly	Phe	Tyr	Ser	Ser	Pro
				365					370					375
Leu	Phe	Arg	Ser	Leu	Arg	Pro	Arg	Trp	His	Asp	Thr	Ala	Met	Thr
				380					385					390
Gln	Ile	Ile	Gly	Asn	Cys	Val	Cys	Leu	Leu	Val	Leu	Ser	Ser	Ala
				395					400					405
Leu	Pro	Val	Phe	Ser	Arg	Thr	Leu	Gly	Leu	Thr	Arg	Phe	Asp	Leu
				410					415					420
Leu	Gly	Asp	Phe	Gly	Arg	Phe	Asn	Trp	Leu	Gly	Asn	Phe	Tyr	Ile
				425					430					435
Val	Phe	Leu	Tyr	Asn	Ala	Ala	Phe	Ala	Gly	Leu	Thr	Thr	Leu	Cys
				440					445					450
Leu	Val	Lys	Thr	Phe	Thr	Ala	Ala	Val	Arg	Ala	Glu	Leu	Ile	Arg
				455					460					465
Ala	Phe	Gly	Leu	Asp	Arg	Leu	Pro	Leu	Pro	Val	Ser	Gly	Phe	Pro
				470					475					480
Gln	Ala	Ser	Arg	Lys	Thr	Gln	His	Gln						
				485										

<210> 139
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 53, 57
 <223> unknown base

<400> 139

P2730P1sequencelisting.txt

ggctgccgag ggaaggcccc ttgggttggt cttggttgct tggcggcggc 50
 ggnttcntcc ccgctcgtcc tccccgggcc cagaggcacc tcggcttcag 100
 tcatgctgag cagagtatgg aagcacctga ctacgaagtg ctatccgtgc 150
 gagaacagct attccacgag aggatccgcg agtgtattat atcaacactt 200
 ctgtttgcaa cactgtacat cctctgccac atcttcctga cccgcttcaa 250
 gaagcctgct gagttcacca cagtggatga tgaagatgcc accg 294

<210> 140
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 197, 349
 <223> unknown base

<400> 140
 gaccgacctt aaagagtggg agcaaaggga ggacagagcc ttttaaaacg 50
 aggcggtggt gcctgccctt taagggcggg gcgtccggac gactgtatct 100
 gagccccaga ctgccccgag tttctgtcgc aggctgcgag gaaaggcccc 150
 taggctgggt ctggtgcttg gcggcggcgg cttcctcccc gttgtcntcc 200
 ccgggcccag aggcacctcg gcttcagtca tgctgagcag agtatggaag 250
 cacctgacta cgaagtgcta tccgtgcgag aacagctatt ccacgagagg 300
 atccgcgagt gtattatatc aacacttctg tttgcaacac tgtacatcnt 350
 ctgccacatc ttcctgacct gcttcaagaa gcctgctgag ttcaccacag 400
 tggatgatga agatgccacc gtcaacaaga ttgcgctcga gctgtgcacc 450
 tttaccctgg caattgccct ggggtgctgtc ctgctcctgc ctttctccat 500
 catcagcaat gaggtgctgc actccc 526

<210> 141
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 141
 gactgtatct gagccccaga ctgc 24

<210> 142
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 142
 tcagcaatga ggtgctgctc 20

<210> 143

P2730P1sequencelisting.txt

<211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 143
 tgaggaagat gagggacagg ttgg 24

<210> 144
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 144
 tatggaagca cctgactacg aagtgcctatc cgtgcgagaa cagctattcc 50

<210> 145
 <211> 685
 <212> DNA
 <213> Homo sapiens

<400> 145
 gatgtgctcc ttggagctgg tgtgcagtgt cctgactgta agatcaagtc 50
 caaacctgtt ttggaattga ggaaacttct cttttgatct cagcccttgg 100
 tgggtccaggt cttcatgctg ctgtgggtga tattactggc cctggctcct 150
 gtcagtggac agtttgcaag gacacccagg cccattattt tcctccagcc 200
 tccatggacc acagtcttcc aaggagagag agtgaccctc acttgcaagg 250
 gatttcgctt ctactcacca cagaaaacaa aatggtacca tcggtacctt 300
 gggaaagaaa tactaagaga aaccccagac aatatacctg aggttcagga 350
 atctggagag tacagatgcc aggccaggg ctcccctctc agtagccctg 400
 tgcacttggg tttttcttca gagatgggat ttcctcatgc tgcccaggct 450
 aatgttgaac tcctgggctc aagtgatctg ctcacctagg cctctcaaag 500
 cgctgggatt acagcttcgc tgatcctgca agctccactt tctgtgtttg 550
 aaggagactc tgtggttctg aggtgccggg caaaggcggg agtaacactg 600
 aataatacta ttacaagaa tgataatgtc ctggcattcc ttaataaaag 650
 aactgacttc caaaaaaaaaa aaaaaaaaaa aaaaa 685

<210> 146
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 146
 Met Leu Leu Trp Val Ile Leu Leu Val Leu Ala Pro Val Ser Gly
 1 5 10 15
 Gln Phe Ala Arg Thr Pro Arg Pro Ile Ile Phe Leu Gln Pro Pro
 20 25 30
 Trp Thr Thr Val Phe Gln Gly Glu Arg Val Thr Leu Thr Cys Lys
 Page 117

P2730P1sequencelisting.txt

	35		40		45
Gly Phe Arg Phe Tyr Ser Pro Gln Lys Thr Lys Trp Tyr His Arg	50		55		60
Tyr Leu Gly Lys Glu Ile Leu Arg Glu Thr Pro Asp Asn Ile Leu	65		70		75
Glu Val Gln Glu Ser Gly Glu Tyr Arg Cys Gln Ala Gln Gly Ser	80		85		90
Pro Leu Ser Ser Pro Val His Leu Asp Phe Ser Ser Glu Met Gly	95		100		105
Phe Pro His Ala Ala Gln Ala Asn Val Glu Leu Leu Gly Ser Ser	110		115		120

Asp Leu Leu Thr

<210> 147
 <211> 1621
 <212> DNA
 <213> Homo sapiens

<400> 147
 cagaagaggg ggctagctag ctgtctctgc ggaccagggg gacccccgcg 50
 cccccccggt gtgaggcggc ctcacagggc cgggtgggct ggcgagccga 100
 cgcggcggcg gaggaggctg tgaggagtgt gtggaacagg acccgggaca 150
 gaggaaccat ggctccgcag aacctgagca ccttttgcct gttgctgcta 200
 tacctcatcg gggcgggtgat tgccggacga gatttctata agatcttggg 250
 ggtgcctcga agtgcctcta taaaggatat taaaaaggcc tataggaaac 300
 tagccctgca gtttcatccc gaccggaacc ctgatgatcc acaagcccag 350
 gagaaattcc aggatctggg tgctgcttat gaggttctgt cagatagtga 400
 gaaacggaaa cagtacgata cttatgggtga agaaggatta aaagatggtc 450
 atcagagctc ccatggagac attttttcac acttctttgg ggattttggt 500
 ttcattgtttg gaggaacccc tcgtcagcaa gacagaaata ttccaagagg 550
 aagtgatatt attgtagatc tagaagtcac tttggaagaa gtatatgcag 600
 gaaattttgt ggaagtagtt agaaacaaac ctgtggcaag gcaggctcct 650
 ggcaaacgga agtgcaattg tcggcaagag atgcggacca cccagctggg 700
 ccctgggctc ttccaaatga cccaggaggt ggtctgcgac gaatgcccta 750
 atgtcaaact agtgaatgaa gaacgaacgc tggaagtaga aatagagcct 800
 ggggtgagag acggcatgga gtaccctttt attggagaag gtgagcctca 850
 cgtggatggg gagcctggag atttacggtt ccgaatcaaa gttgtcaagc 900
 acccaatatt tgaaaggaga ggagatgatt tgtacacaaa tgtgacaatc 950
 tcattagtgt agtcactggt tggctttgag atggatatta ctacttgga 1000
 tggtcacaag gtacatattt cccgggataa gatcaccagg ccaggagcga 1050

P2730P1sequencelisting.txt

agctatggaa gaaaggggaa gggctcccca accttgacaa caacaatatt 1100
aagggtcttt tgataatcac ttttgatgtg gattttccaa aagaacagtt 1150
aacagaggaa gcgagagaag gtatcaaaca gctactgaaa caagggtcag 1200
tgcagaaggt atacaatgga ctgcaaggat attgagagtg aataaaattg 1250
gactttgttt aaaataagtg aataagcgat atttattatc tgcaaggttt 1300
ttttgtgtgt gtttttgttt ttattttcaa tatgcaagtt aggcttaatt 1350
tttttatcta atgatcatca tgaaatgaat aagagggctt aagaatttgt 1400
ccatttgcatt tcggaaaaga atgaccagca aaagggtttac taatacctct 1450
ccctttgggg atttaattgtc tgggtgctgcc gcctgagttt caagaattaa 1500
agctgcaaga ggactccagg agcaaaagaa acacaatata gaggggttgg 1550
gttgtagca atttcattca aaatgccaac tggagaagtc tgtttttaaa 1600
tacattttgt tgttattttt a 1621

<210> 148
<211> 358
<212> PRT
<213> Homo sapiens

<400> 148
Met Ala Pro Gln Asn Leu Ser Thr Phe Cys Leu Leu Leu Leu Tyr
1 5 10 15
Leu Ile Gly Ala Val Ile Ala Gly Arg Asp Phe Tyr Lys Ile Leu
20 25 30
Gly Val Pro Arg Ser Ala Ser Ile Lys Asp Ile Lys Lys Ala Tyr
35 40 45
Arg Lys Leu Ala Leu Gln Leu His Pro Asp Arg Asn Pro Asp Asp
50 55 60
Pro Gln Ala Gln Glu Lys Phe Gln Asp Leu Gly Ala Ala Tyr Glu
65 70 75
Val Leu Ser Asp Ser Glu Lys Arg Lys Gln Tyr Asp Thr Tyr Gly
80 85 90
Glu Glu Gly Leu Lys Asp Gly His Gln Ser Ser His Gly Asp Ile
95 100 105
Phe Ser His Phe Phe Gly Asp Phe Gly Phe Met Phe Gly Gly Thr
110 115 120
Pro Arg Gln Gln Asp Arg Asn Ile Pro Arg Gly Ser Asp Ile Ile
125 130 135
Val Asp Leu Glu Val Thr Leu Glu Glu Val Tyr Ala Gly Asn Phe
140 145 150
Val Glu Val Val Arg Asn Lys Pro Val Ala Arg Gln Ala Pro Gly
155 160 165
Lys Arg Lys Cys Asn Cys Arg Gln Glu Met Arg Thr Thr Gln Leu
170 175 180
Gly Pro Gly Arg Phe Gln Met Thr Gln Glu Val Val Cys Asp Glu
185 190 195

P2730P1sequencelisting.txt

Cys	Pro	Asn	Val	Lys	Leu	Val	Asn	Glu	Glu	Arg	Thr	Leu	Glu	Val
				200					205					210
Glu	Ile	Glu	Pro	Gly	Val	Arg	Asp	Gly	Met	Glu	Tyr	Pro	Phe	Ile
				215					220					225
Gly	Glu	Gly	Glu	Pro	His	Val	Asp	Gly	Glu	Pro	Gly	Asp	Leu	Arg
				230					235					240
Phe	Arg	Ile	Lys	Val	Val	Lys	His	Pro	Ile	Phe	Glu	Arg	Arg	Gly
				245					250					255
Asp	Asp	Leu	Tyr	Thr	Asn	Val	Thr	Ile	Ser	Leu	Val	Glu	Ser	Leu
				260					265					270
Val	Gly	Phe	Glu	Met	Asp	Ile	Thr	His	Leu	Asp	Gly	His	Lys	Val
				275					280					285
His	Ile	Ser	Arg	Asp	Lys	Ile	Thr	Arg	Pro	Gly	Ala	Lys	Leu	Trp
				290					295					300
Lys	Lys	Gly	Glu	Gly	Leu	Pro	Asn	Phe	Asp	Asn	Asn	Asn	Ile	Lys
				305					310					315
Gly	Ser	Leu	Ile	Ile	Thr	Phe	Asp	Val	Asp	Phe	Pro	Lys	Glu	Gln
				320					325					330
Leu	Thr	Glu	Glu	Ala	Arg	Glu	Gly	Ile	Lys	Gln	Leu	Leu	Lys	Gln
				335					340					345
Gly	Ser	Val	Gln	Lys	Val	Tyr	Asn	Gly	Leu	Gln	Gly	Tyr		
				350					355					

<210> 149

<211> 509

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 34, 52, 134, 142, 155, 158, 196, 217, 228, 272, 347, 410, 445, 482

<223> unknown base

<400> 149

```

tgggaccagg gaacccccggg ccccccggtg gagngcctaa caggccggtg 50
gntgcgaccg aagcggcgagg cggaggaggt tttgaggatt tttggaacag 100
gaccgagaca gaggaaccat ggttccgcag aacntgagca cnttttgcct 150
gttgntgnta tacttcatcg gggcggtgat tgccggacga gatttntata 200
agattttggg gtgcctngaa gtgccttnta taaaggatat taaaaaggcc 250
tataggaaac tagccctgca gntttatccc gaccggaacc ctgatgatcc 300
acaagcccag gagaaattcc aggatattggg tgctgcttat gaggttntgt 350
cagatagtga gaaacggaaa cagtacgata attatggtga agaaggatta 400
aaagatggtn atcagagctc ccatggagac attttttcac acttntttgg 450
ggattttggt ttcattgttg gaggaacccc tngtcagcaa gacagaaata 500
ttccaagag 509

```

P2730P1sequencelisting.txt

<210> 150
 <211> 1532
 <212> DNA
 <213> Homo sapiens

<400> 150
 ggcacgaggc ggcggggcag tcgcgggatg cgcccgggag ccacagcctg 50
 aggccctcag gtctctgcag gtgtcgtgga ggaacctagc acctgccatc 100
 ctcttcccca atttgccact tccagcagct ttagcccatg aggaggatgt 150
 gaccgggact gagtcaggag ccctctggaa gcatggagac tgtggtgatt 200
 gttgccatag gtgtgctggc caccatcttt ctggcttcgt ttgcagcctt 250
 ggtgctgggt tgcaggcagc gctactgccg gccgcgagac ctgctgcagc 300
 gctatgattc taagcccatt gtggacctca ttggtgccat ggagacccag 350
 tctgagccct ctgagttaga actggacgat gtcgttatca ccaaccccca 400
 cattgaggcc attctggaga atgaagactg gatcgaagat gcctcgggtc 450
 tcatgtccca ctgcattgcc atcttgaaga tttgtcacac tctgacagag 500
 aagcttggtt ccatgacaat gggctctggg gccaagatga agacttcagc 550
 cagtgtcagc gacatcattg tggtgggcaa gcggatcagc cccaggggtg 600
 atgatgttgt gaagtcgatg taccctccgt tggaccccaa actcctggac 650
 gcacggacga ctgccctgct cctgtctgtc agtcacctgg tgctggtgac 700
 aaggaatgcc tgccatctga cgggaggcct ggactggatt gaccagtctc 750
 tgtcggctgc tgaggagcat ttggaagtcc ttcgagaagc agccctagct 800
 tctgagccag ataaaggcct cccaggccct gaaggcttcc tgcaggagca 850
 gtctgcaatt tagtgcttac aggccagcag ctagccatga aggccctgc 900
 cgccatccct ggatggctca gcttagcctt ctactttttc ctatagagtt 950
 agttgttttc cacggctgga gagttcagct gtgtgtgcat agtaaagcag 1000
 gagatccccg tcagtttatg cctcttttgc agttgcaaac tgtggctggt 1050
 gagtggcagt ctaatactac agttagggga gatgccattc actctctgca 1100
 agaggagtat tgaaaactgg tggactgtca gctttattta gtcacctag 1150
 tgttttcaag aaaattgagc caccgtctaa gaaatcaaga ggtttcacat 1200
 taaaattaga atttctggcc tctctcgatc ggtcagaatg tgtggcaatt 1250
 ctgatctgca ttttcagaag aggacaatca attgaaacta agtaggggtt 1300
 tcttcttttg gcaagacttg tactctctca cctggcctgt ttcatttatt 1350
 tgtattatct gcctgggtccc tgaggcgtct gggctctctc tctcccttgc 1400
 aggtttgggt ttgaagctga ggaactacaa agttgatgat ttctttttta 1450
 tctttatgcc tgcaatttta cctagctacc actaggtgga tagtaaattt 1500
 atacttatgt ttccctcaaa aaaaaaaaaa aa 1532

P2730P1sequencelisting.txt

<210> 151
 <211> 226
 <212> PRT
 <213> Homo sapiens

<400> 151
 Met Glu Thr Val Val Ile Val Ala Ile Gly Val Leu Ala Thr Ile
 1 5 10 15
 Phe Leu Ala Ser Phe Ala Ala Leu Val Leu Val Cys Arg Gln Arg
 20 25 30
 Tyr Cys Arg Pro Arg Asp Leu Leu Gln Arg Tyr Asp Ser Lys Pro
 35 40 45
 Ile Val Asp Leu Ile Gly Ala Met Glu Thr Gln Ser Glu Pro Ser
 50 55 60
 Glu Leu Glu Leu Asp Asp Val Val Ile Thr Asn Pro His Ile Glu
 65 70 75
 Ala Ile Leu Glu Asn Glu Asp Trp Ile Glu Asp Ala Ser Gly Leu
 80 85 90
 Met Ser His Cys Ile Ala Ile Leu Lys Ile Cys His Thr Leu Thr
 95 100 105
 Glu Lys Leu Val Ala Met Thr Met Gly Ser Gly Ala Lys Met Lys
 110 115 120
 Thr Ser Ala Ser Val Ser Asp Ile Ile Val Val Ala Lys Arg Ile
 125 130 135
 Ser Pro Arg Val Asp Asp Val Val Lys Ser Met Tyr Pro Pro Leu
 140 145 150
 Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr Ala Leu Leu Leu Ser
 155 160 165
 Val Ser His Leu Val Leu Val Thr Arg Asn Ala Cys His Leu Thr
 170 175 180
 Gly Gly Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala Ala Glu Glu
 185 190 195
 His Leu Glu Val Leu Arg Glu Ala Ala Leu Ala Ser Glu Pro Asp
 200 205 210
 Lys Gly Leu Pro Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser Ala
 215 220 225
 Ile

<210> 152
 <211> 1027
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 1017, 1020
 <223> unknown base

<400> 152
 gcttcatttc tcccgactca gcttcccacc ctgggctttc cgaggtgctt 50
 tcgccgctgt cccaccact gcagccatga tctccttaac ggacacgcag 100
 Page 122

P2730P1sequencelisting.txt

aaaattggaa tgggattaac aggatttggg gtgtttttcc tgttctttgg 150
 aatgattctc ttttttgaca aagcactact ggctattgga aatgttttat 200
 ttgtagccgg cttggctttt gtaattgggt tagaaagaac attcagattc 250
 ttctttccaa aacataaaat gaaagctaca gggttttttc tgggtggtgt 300
 atttgtagtc cttattgggt ggcctttgat aggcattgat ttcgaaattt 350
 atggattttt tctcttggtc aggggcttct ttcctgtcgt tgttggtttt 400
 attagaagag tgccagtcct tggatccctc ctaaatttac ctggaattag 450
 atcatttgta gataaagttg gagaaagcaa caatatggta taacaacaag 500
 tgaatttgaa gactcattta aaatattgtg ttatttataa agtcatttga 550
 agaattattc gcacaaaatt aaattacatg aaatagcttg taatgttctt 600
 tacaggagtt taaaacgtat agcctacaaa gtaccagcag caaattagca 650
 aagaagcagt gaaaacaggc ttctactcaa gtgaactaag aagaagtcag 700
 caagcaaaact gagagaggtg aaatccatgt taatgatgct taagaaactc 750
 ttgaaggcta tttgtgttgt ttttccacaa tgtgcgaaac tcagccatcc 800
 ttagagaact gtggtgcctg tttcttttct tttattttg aaggctcagg 850
 agcatccata ggcatttgct ttttagaagt gtccactgca atggcaaaaa 900
 tatttccagt tgcactgtat ctctggaagt gatgcatgaa ttcgattgga 950
 ttgtgtcatt ttaaagtatt aaaaccaagg aaacccaat tttgatgtat 1000
 ggattacttt tttttgngcn cagggcc 1027

<210> 153
 <211> 138
 <212> PRT
 <213> Homo sapiens

<220>
 <221> N-myristoylation Sites
 <222> 11-16, 51-56 and 116-121
 <223> N-myristoylation Sites.

<220>
 <221> Transmembrane domains
 <222> 12-30, 33-52, 69-89 and 93-109
 <223> Transmembrane domains

<220>
 <221> Aminoacyl-transfer RNA Synthetases.
 <222> 49-59
 <223> Aminoacyl-transfer RNA synthetases class-II protein.

<400> 153
 Met Ile Ser Leu Thr Asp Thr Gln Lys Ile Gly Met Gly Leu Thr
 1 5 10 15
 Gly Phe Gly Val Phe Phe Leu Phe Phe Gly Met Ile Leu Phe Phe
 20 25 30
 Asp Lys Ala Leu Leu Ala Ile Gly Asn Val Leu Phe Val Ala Gly
 35 40 45

P2730P1sequencelisting.txt

Leu Ala Phe Val Ile Gly Leu Glu Arg Thr Phe Arg Phe Phe Phe
50 55 60
Gln Lys His Lys Met Lys Ala Thr Gly Phe Phe Leu Gly Gly Val
65 70 75
Phe Val Val Leu Ile Gly Trp Pro Leu Ile Gly Met Ile Phe Glu
80 85 90
Ile Tyr Gly Phe Phe Leu Leu Phe Arg Gly Phe Phe Pro Val Val
95 100 105
Val Gly Phe Ile Arg Arg Val Pro Val Leu Gly Ser Leu Leu Asn
110 115 120
Leu Pro Gly Ile Arg Ser Phe Val Asp Lys Val Gly Glu Ser Asn
125 130 135
Asn Met Val

<210> 154
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 66
<223> unknown base

<400> 154
gaagacgtgg cggctctcgc ctgggctgtt tcccggcttc atttctccc 50
actcagcttc ccacntggg ctttccgagg tgctttcgcc gctgtcccca 100
ccactgcagc catgatctcc ttaacggaca cgcagaaaat tggaatggga 150
ttaaccggat ttggagtgtt tttcctgttc tttggaatga ttctcttttt 200
tgacaaagca ctactggcta ttggaaatgt tttatttgta gccggcttgg 250
cttttgtaat tggtttagaa agaacattca gattcttctt ccaaaaacat 300
aaaatgaaag ctacagggtt ttttctgggt ggtgtatttg tagtccttat 350
tggttggcct ttgataggca tgatcttcga aatttatgga ttttttctct 400
tgttc 405

<210> 155
<211> 1781
<212> DNA
<213> Homo sapiens

<400> 155
ggcacgaggc tgaaccagc cggctccatc tcagcttctg gtttctaagt 50
ccatgtgcca aaggctgcca ggaaggagac gccttctga gtcttgatc 100
tttcttctt ctggaaatct ttgactgtgg gtagttattt atttctgaat 150
aagagcgtcc acgcatcatg gacctgcgg gactgctgaa gtctcagttc 200
ctgtgccacc tggcttctg ctacgtctt attgcctcag ggctaatacat 250
caacaccatt cagctcttca ctctctcct ctggccatt aacaagcagc 300

P2730P1sequencelisting.txt

tcttccggaa gatcaactgc agactgtcct attgcatctc aagccagctg 350
gtgatgctgc tggagtgggtg gtcggggcacg gaatgcacca tcttcacgga 400
cccgcgcgcc tacctcaagt atgggaagga aaatgccatc gtggttctca 450
accacaagtt tgaaattgac tttctgtgtg gctggagcct gtccgaacgc 500
tttgggctgt tagggggctc caaggtcctg gccaaagaaag agctggccta 550
tgtcccaatt atcggctgga tgtggtactt caccgagatg gtcttctgtt 600
cgcgcaagtg ggagcaggat cgcaagacgg ttgccaccag tttgcagcac 650
ctccgggact accccgagaa gtattttttc ctgattcact gtgagggcac 700
acgggttcacg gagaagaagc atgagatcag catgcagggtg gcccgggcca 750
aggggctgcc tcgcctcaag catcacctgt tgccacgaac caagggttc 800
gccatcaccg tgaggagctt gagaaatgta gtttcagctg tatatgactg 850
tacactcaat ttcagaaata atgaaaatcc aactctgctg ggagtcctaa 900
acggaaagaa ataccatgca gatttgtatg ttaggaggat cccactggaa 950
gacatccctg aagacgatga cgagtgtctg gcctggctgc acaagctcta 1000
ccaggagaag gatgcctttc aggaggagta ctacaggacg ggcaccttcc 1050
cagagacgcc catggtgccc ccccgggcggc cctggaccct cgtgaactgg 1100
ctgttttggg cctcgctggt gctctaccct ttcttccagt tcctggtcag 1150
catgatcagg agcgggtctt ccctgacgct ggccagcttc atcctcgtct 1200
tctttgtggc ctccgtggga gttcgtatga tgattggtgt gacggaaatt 1250
gacaagggtc ctgcctacgg caactctgac agcaagcaga aactgaatga 1300
ctgactcagg gaggtgtcac catccgaagg gaaccttggg gaactggtgg 1350
cctctgcata tcctccttag tgggacacgg tgacaaaggc tgggtgagcc 1400
cctgctgggc acggcggaag tcacgacctc tccagccagg gagtctggtc 1450
tcaaggccgg atggggagga agatgttttg taatcttttt ttcccatgt 1500
gcttttagtg gcttttggtt tctttttgtg cgagtgtgtg tgagaatggc 1550
tgtgtggtga gtgtgaactt tgttctgtga tcatagaaag ggtatttttag 1600
gctgcagggg agggcagggc tggggaccga aggggacaag ttcccctttc 1650
atcctttggt gctgagtttt ctgtaaccct tggttgccag agataaagtg 1700
aaaagtgtt taggtgagat gactaaatta tgcctccaag aaaaaaaat 1750
taaagtgtt ttctgggtca aaaaaaaaaa a 1781

<210> 156

<211> 378

<212> PRT

<213> Homo sapiens

<400> 156

Met Asp Leu Ala Gly Leu Leu Lys Ser Gln Phe Leu Cys His Leu

P2730P1sequencelisting.txt

1	5	10	15
Val Phe Cys Tyr	Val Phe Ile Ala Ser	Gly Leu Ile Ile Asn	Thr
	20	25	30
Ile Gln Leu Phe	Thr Leu Leu Leu Trp	Pro Ile Asn Lys Gln	Leu
	35	40	45
Phe Arg Lys Ile	Asn Cys Arg Leu Ser	Tyr Cys Ile Ser Ser	Gln
	50	55	60
Leu Val Met Leu	Leu Glu Trp Trp Ser	Gly Thr Glu Cys Thr	Ile
	65	70	75
Phe Thr Asp Pro	Arg Ala Tyr Leu Lys	Tyr Gly Lys Glu Asn	Ala
	80	85	90
Ile Val Val Leu	Asn His Lys Phe Glu	Ile Asp Phe Leu Cys	Gly
	95	100	105
Trp Ser Leu Ser	Glu Arg Phe Gly Leu	Leu Gly Gly Ser Lys	Val
	110	115	120
Leu Ala Lys Lys	Glu Leu Ala Tyr Val	Pro Ile Ile Gly Trp	Met
	125	130	135
Trp Tyr Phe Thr	Glu Met Val Phe Cys	Ser Arg Lys Trp Glu	Gln
	140	145	150
Asp Arg Lys Thr	Val Ala Thr Ser Leu	Gln His Leu Arg Asp	Tyr
	155	160	165
Pro Glu Lys Tyr	Phe Phe Leu Ile His	Cys Glu Gly Thr Arg	Phe
	170	175	180
Thr Glu Lys Lys	His Glu Ile Ser Met	Gln Val Ala Arg Ala	Lys
	185	190	195
Gly Leu Pro Arg	Leu Lys His His Leu	Leu Pro Arg Thr Lys	Gly
	200	205	210
Phe Ala Ile Thr	Val Arg Ser Leu Arg	Asn Val Val Ser Ala	Val
	215	220	225
Tyr Asp Cys Thr	Leu Asn Phe Arg Asn	Asn Glu Asn Pro Thr	Leu
	230	235	240
Leu Gly Val Leu	Asn Gly Lys Lys Tyr	His Ala Asp Leu Tyr	Val
	245	250	255
Arg Arg Ile Pro	Leu Glu Asp Ile Pro	Glu Asp Asp Asp Glu	Cys
	260	265	270
Ser Ala Trp Leu	His Lys Leu Tyr Gln	Glu Lys Asp Ala Phe	Gln
	275	280	285
Glu Glu Tyr Tyr	Arg Thr Gly Thr Phe	Pro Glu Thr Pro Met	Val
	290	295	300
Pro Pro Arg Arg	Pro Trp Thr Leu Val	Asn Trp Leu Phe Trp	Ala
	305	310	315
Ser Leu Val Leu	Tyr Pro Phe Phe Gln	Phe Leu Val Ser Met	Ile
	320	325	330
Arg Ser Gly Ser	Ser Leu Thr Leu Ala	Ser Phe Ile Leu Val	Phe
	335	340	345

P2730P1sequencelisting.txt

Phe Val Ala Ser Val Gly Val Arg Trp Met Ile Gly Val Thr Glu
350 355 360

Ile Asp Lys Gly Ser Ala Tyr Gly Asn Ser Asp Ser Lys Gln Lys
365 370 375

Leu Asn Asp

<210> 157
<211> 1849
<212> DNA
<213> Homo sapiens

<400> 157
ctgaggcggc ggtagcatgg agggggagag tacgtcggcg gtgctctcgg 50
gctttgtgct cggcgcactc gctttccagc acctcaacac ggactcggac 100
acggaagggtt ttcttcttgg ggaagtaaaa ggtgaagcca agaacagcat 150
tactgattcc caaatggatg atgttgaagt tgtttataca attgacattc 200
agaaatatat tccatgctat cagcttttta gcttttataa ttcttcaggc 250
gaagtaaatg agcaagcact gaagaaaata ttatcaaagc tcaaaaagaa 300
tgtggttaggt tggtagaaat tccgtcgtca ttcagatcag atcatgacgt 350
ttagagagag gctgcttcac aaaaacttgc aggagcattt ttcaaaccac 400
gaccttggtt ttctgctatt aacaccaagt ataataacag aaagctgctc 450
tactcatcga ctggaacatt ccttatataa acctcaaaaa ggactttttc 500
acaggggtacc tttagtgggt gccaatctgg gcatgtctga acaactgggt 550
tataaaactg tatcagggtt ctgtatgtcc actgggttta gccgagcagt 600
acaaacacac agctctaaat tttttgaaga agatggatcc ttaaaggagg 650
tacataagat aaatgaaatg tatgcttcat tacaagagga attaaagagt 700
atatgcaaaa aagtggaaga cagtgaacaa gcagtagata aactagtaaa 750
ggatgtaaac agattaaac gagaaattga gaaaaggaga ggagcacaga 800
ttcaggcagc aagagagaag aacatccaaa aagaccctca ggagaacatt 850
tttctttgtc aggcatctac gacctttttt ccaaattctg aatttcttca 900
ttcatgtgtt atgtctttta aaaatagaca tgtttctaaa agtagctgta 950
actacaacca ccatctcgat gtagtagaca atctgacctt aatggtagaa 1000
cacactgaca ttcctgaagc tagtccagct agtacaccac aaatcattaa 1050
gcataaagcc ttagacttag atgacagatg gcaattcaag agatctcggc 1100
tgtagatata acaagacaaa cgatctaaag caaatactgg tagtagtaac 1150
caagataaag catccaaaat gagcagccca gaaacagatg aagaaattga 1200
aaagatgaag gggtttgggt aatattcacg gtctcctaca ttttgatcct 1250
tttaacctta caaggagatt tttttatttg gctgatgggt aaagccaaac 1300
atttctattg tttttactat gttgagctac ttgcagtaag ttcatttggt 1350

P2730P1sequencelisting.txt

```

tttactatgt tcacctgttt gcagtaatac acagataact cttagtgcac 1400
ttacttcaca aagtactttt tcaaacatca gatgctttta tttccaaacc 1450
tttttttcac ctttcactaa gttgttgagg ggaaggctta cacagacaca 1500
ttcttttagaa ttggaaaagt gagaccaggc acagtggctc acacctgtaa 1550
tcccagcact tagggaagac aagtcaggag gattgattga agctaggagt 1600
tagagaccag cctgggcaac gtattgagac catgtctatt aaaaaataaa 1650
atggaaaagc aagaatagcc ttattttcaa aatatggaaa gaaatttata 1700
tgaaaattta tctgagtcac taaaattctc ctttaagtga acttttttag 1750
aagtacatta tggctagagt tgccagataa aatgctggat atcatgcaat 1800
aaatttgcaa aacatcatct aaaatttaaa aaaaaaaaaa aaaaaaaaaa 1849

```

<210> 158
 <211> 409
 <212> PRT
 <213> Homo sapiens

```

<400> 158
Met Glu Gly Glu Ser Thr Ser Ala Val Leu Ser Gly Phe Val Leu
 1      5      10      15
Gly Ala Leu Ala Phe Gln His Leu Asn Thr Asp Ser Asp Thr Glu
      20      25      30
Gly Phe Leu Leu Gly Glu Val Lys Gly Glu Ala Lys Asn Ser Ile
      35      40      45
Thr Asp Ser Gln Met Asp Asp Val Glu Val Val Tyr Thr Ile Asp
      50      55      60
Ile Gln Lys Tyr Ile Pro Cys Tyr Gln Leu Phe Ser Phe Tyr Asn
      65      70      75
Ser Ser Gly Glu Val Asn Glu Gln Ala Leu Lys Lys Ile Leu Ser
      80      85      90
Asn Val Lys Lys Asn Val Val Gly Trp Tyr Lys Phe Arg Arg His
      95     100     105
Ser Asp Gln Ile Met Thr Phe Arg Glu Arg Leu Leu His Lys Asn
     110     115     120
Leu Gln Glu His Phe Ser Asn Gln Asp Leu Val Phe Leu Leu Leu
     125     130     135
Thr Pro Ser Ile Ile Thr Glu Ser Cys Ser Thr His Arg Leu Glu
     140     145     150
His Ser Leu Tyr Lys Pro Gln Lys Gly Leu Phe His Arg Val Pro
     155     160     165
Leu Val Val Ala Asn Leu Gly Met Ser Glu Gln Leu Gly Tyr Lys
     170     175     180
Thr Val Ser Gly Ser Cys Met Ser Thr Gly Phe Ser Arg Ala Val
     185     190     195
Gln Thr His Ser Ser Lys Phe Phe Glu Glu Asp Gly Ser Leu Lys
     200     205     210

```

P2730P1sequencelisting.txt

Glu Val His Lys Ile Asn Glu Met Tyr Ala Ser Leu Gln Glu Glu
215 220 225
Leu Lys Ser Ile Cys Lys Lys Val Glu Asp Ser Glu Gln Ala Val
230 235 240
Asp Lys Leu Val Lys Asp Val Asn Arg Leu Lys Arg Glu Ile Glu
245 250 255
Lys Arg Arg Gly Ala Gln Ile Gln Ala Ala Arg Glu Lys Asn Ile
260 265 270
Gln Lys Asp Pro Gln Glu Asn Ile Phe Leu Cys Gln Ala Leu Arg
275 280 285
Thr Phe Phe Pro Asn Ser Glu Phe Leu His Ser Cys Val Met Ser
290 295 300
Leu Lys Asn Arg His Val Ser Lys Ser Ser Cys Asn Tyr Asn His
305 310 315
His Leu Asp Val Val Asp Asn Leu Thr Leu Met Val Glu His Thr
320 325 330
Asp Ile Pro Glu Ala Ser Pro Ala Ser Thr Pro Gln Ile Ile Lys
335 340 345
His Lys Ala Leu Asp Leu Asp Asp Arg Trp Gln Phe Lys Arg Ser
350 355 360
Arg Leu Leu Asp Thr Gln Asp Lys Arg Ser Lys Ala Asn Thr Gly
365 370 375
Ser Ser Asn Gln Asp Lys Ala Ser Lys Met Ser Ser Pro Glu Thr
380 385 390
Asp Glu Glu Ile Glu Lys Met Lys Gly Phe Gly Glu Tyr Ser Arg
395 400 405
Ser Pro Thr Phe

<210> 159
<211> 2651
<212> DNA
<213> Homo sapiens

<400> 159
ggcacagccg cgcggcggag ggcagagtca gccgagccga gtccagccgg 50
acgagcggac cagcgcaggg cagcccaagc agcgcgcagc gaacgcccgc 100
cgccgcccac accctctgcg gtccccgcgg cgcttgccac ctttcctcc 150
ttccccgcgt cccgcctcg ccggccagtc agcttgccgg gttcgctgcc 200
ccgcgaaacc ccgaggtcac cagccgcgc ctctgcttcc ctgggcccgc 250
cgccgcctcc acgcccctct tctcccctgg cccgggcgct ggcaccgggg 300
accgttgctt gacgcgaggc ccagctctac ttttcgcccc gcgtctctc 350
cgctgctcg cctcttcac caactccaac tccttctccc tccagctcca 400
ctcgctagtc cccgactccg ccagccctcg gcccgctgcc gtagcgccgc 450
ttcccgctcg gtcccaaagg tgggaacgcg tccgccccgg cccgcacccat 500

P2730P1sequencelisting.txt

ggcacgggttc ggcttgccccg cgcttctctg caccctggca gtgctcagcg 550
 ccgcgctgct ggctgcccag ctcaagtcga aaagttgctc ggaagtgcga 600
 cgtcttttacg tgtccaaagg cttcaacaag aacgatgccc ccctccacga 650
 gatcaacggt gatcatttga agatctgtcc ccagggttct acctgctgct 700
 ctcaagagat ggaggagaag tacagcctgc aaagtaaaga tgatttcaaa 750
 agtgtggtca gcgaacagtg caatcatttg caagctgtct ttgcttcacg 800
 ttacaagaag tttgatgaat tcttcaaaga actacttgaa aatgcagaga 850
 aatccctgaa tgatatgttt gtgaagacat atggccattt atacatgcaa 900
 aattctgagc tatttaaaaga tctcttcgta gagttgaaac gttactacgt 950
 ggtgggaaat gtgaacctgg aagaaatgct aaatgacttc tgggctcggc 1000
 tcctggagcg gatgttccgc ctggtgaact ccagtagca ctttacagat 1050
 gagtatctgg aatgtgtgag caagtatacg gagcagctga agcccttcgg 1100
 agatgtccct cgcaaattga agctccaggt tactcgtgct tttgtagcag 1150
 cccgtacttt cgctcaaggc ttagcggttg cgggagatgt cgtgagcaag 1200
 gtctccgtgg taaacccac agcccagtgt acccatgccc tgttgaagat 1250
 gatctactgc tccactgcc ggggtctcgt gactgtgaag ccatgttaca 1300
 actactgctc aaacatcatg agaggctgtt tggccaacca aggggatctc 1350
 gattttgaat ggaacaattt catagatgct atgctgatgg tggcagagag 1400
 gctagagggt cttttcaaca ttgaatcggc catggatccc atcgatgtga 1450
 agatttctga tgctattatg aacatgcagg ataatagtgt tcaagtgtct 1500
 cagaaggttt tccagggatg tggaccccc aagccccctc cagctggacg 1550
 aatttctcgt tccatctctg aaagtgcctt cagtgtcgc ttcagaccac 1600
 atcaccccga ggaacgcca accacagcag ctggcactag tttggaccga 1650
 ctggttactg atgtcaagga gaaactgaaa caggccaaga aattctggctc 1700
 ctcccttccg agcaacgttt gcaacgatga gaggatggct gcaggaaacg 1750
 gcaatgagga tgactgttgg aatgggaaag gcaaaagcag gtacctgttt 1800
 gcagtgacag gaaatggatt agccaaccag ggcaacaacc cagaggtcca 1850
 ggttgacacc agcaaaccag acatactgat ccttcgtcaa atcatggctc 1900
 ttcgagtgat gaccagcaag atgaagaatg catacaatgg gaacgacgtg 1950
 gacttctttg atatcagtga tgaaagtagt ggagaaggaa gtggaagtgg 2000
 ctgtgagtat cagcagtgcc cttcagagtt tgactacaat gccactgacc 2050
 atgctgggaa gagtgccaat gagaaagccg acagtgtggt tgtccgtcct 2100
 ggggcacagg cctacctct cactgtcttc tgcattttgt tcctggttat 2150
 gcagagagag tggagataat tctcaaactc tgagaaaaag tgttcatcaa 2200

P2730P1sequencelisting.txt

aaagttaaaa ggcaccagtt atcacttttc taccatccta gtgactttgc 2250
 tttttaaatg aatggacaac aatgtacagt ttttactatg tggccactgg 2300
 ttttaagaagt gctgactttg ttttctcatt cagttttggg aggaaaaggg 2350
 actgtgcatt gagttgggtc ctgctccccc aaaccatggt aaacgtggct 2400
 aacagtgtag gtacagaact atagttagtt gtgcatttgt gattttatca 2450
 ctctattatt tgtttgatg ttttttctc atttcgtttg tgggtttttt 2500
 tttccaactg tgatctcgcc ttgtttctta caagcaaacc agggtcctt 2550
 cttggcacgt aacatgtacg tatttctgaa atattaaata gctgtacaga 2600
 agcaggtttt atttatcatg ttatcttatt aaaagaaaaa gcccaaaaag 2650
 c 2651

<210> 160

<211> 556

<212> PRT

<213> Homo sapiens

<400> 160

Met	Ala	Arg	Phe	Gly	Leu	Pro	Ala	Leu	Leu	Cys	Thr	Leu	Ala	Val	1	5	10	15
Leu	Ser	Ala	Ala	Leu	Leu	Ala	Ala	Glu	Leu	Lys	Ser	Lys	Ser	Cys	20	25	30	
Ser	Glu	Val	Arg	Arg	Leu	Tyr	Val	Ser	Lys	Gly	Phe	Asn	Lys	Asn	35	40	45	
Asp	Ala	Pro	Leu	His	Glu	Ile	Asn	Gly	Asp	His	Leu	Lys	Ile	Cys	50	55	60	
Pro	Gln	Gly	Ser	Thr	Cys	Cys	Ser	Gln	Glu	Met	Glu	Glu	Lys	Tyr	65	70	75	
Ser	Leu	Gln	Ser	Lys	Asp	Asp	Phe	Lys	Ser	Val	Val	Ser	Glu	Gln	80	85	90	
Cys	Asn	His	Leu	Gln	Ala	Val	Phe	Ala	Ser	Arg	Tyr	Lys	Lys	Phe	95	100	105	
Asp	Glu	Phe	Phe	Lys	Glu	Leu	Leu	Glu	Asn	Ala	Glu	Lys	Ser	Leu	110	115	120	
Asn	Asp	Met	Phe	Val	Lys	Thr	Tyr	Gly	His	Leu	Tyr	Met	Gln	Asn	125	130	135	
Ser	Glu	Leu	Phe	Lys	Asp	Leu	Phe	Val	Glu	Leu	Lys	Arg	Tyr	Tyr	140	145	150	
Val	Val	Gly	Asn	Val	Asn	Leu	Glu	Glu	Met	Leu	Asn	Asp	Phe	Trp	155	160	165	
Ala	Arg	Leu	Leu	Glu	Arg	Met	Phe	Arg	Leu	Val	Asn	Ser	Gln	Tyr	170	175	180	
His	Phe	Thr	Asp	Glu	Tyr	Leu	Glu	Cys	Val	Ser	Lys	Tyr	Thr	Glu	185	190	195	
Gln	Leu	Lys	Pro	Phe	Gly	Asp	Val	Pro	Arg	Lys	Leu	Lys	Leu	Gln	200	205	210	

P2730P1sequencelisting.txt

Val Thr Arg Ala	Phe 215	Val Ala Ala Arg	Thr 220	Phe Ala Gln Gly	Leu 225
Ala Val Ala Gly	Asp 230	Val Val Ser Lys	Val 235	Ser Val Val Asn	Pro 240
Thr Ala Gln Cys	Thr 245	His Ala Leu Leu	Lys 250	Met Ile Tyr Cys	Ser 255
His Cys Arg Gly	Leu 260	Val Thr Val Lys	Pro 265	Cys Tyr Asn Tyr	Cys 270
Ser Asn Ile Met	Arg 275	Gly Cys Leu Ala	Asn 280	Gln Gly Asp Leu	Asp 285
Phe Glu Trp Asn	Asn 290	Phe Ile Asp Ala	Met 295	Leu Met Val Ala	Glu 300
Arg Leu Glu Gly	Pro 305	Phe Asn Ile Glu	Ser 310	Val Met Asp Pro	Ile 315
Asp Val Lys Ile	Ser 320	Asp Ala Ile Met	Asn 325	Met Gln Asp Asn	Ser 330
Val Gln Val Ser	Gln 335	Lys Val Phe Gln	Gly 340	Cys Gly Pro Pro	Lys 345
Pro Leu Pro Ala	Gly 350	Arg Ile Ser Arg	Ser 355	Ile Ser Glu Ser	Ala 360
Phe Ser Ala Arg	Phe 365	Arg Pro His His	Pro 370	Glu Glu Arg Pro	Thr 375
Thr Ala Ala Gly	Thr 380	Ser Leu Asp Arg	Leu 385	Val Thr Asp Val	Lys 390
Glu Lys Leu Lys	Gln 395	Ala Lys Lys Phe	Trp 400	Ser Ser Leu Pro	Ser 405
Asn Val Cys Asn	Asp 410	Glu Arg Met Ala	Ala 415	Gly Asn Gly Asn	Glu 420
Asp Asp Cys Trp	Asn 425	Gly Lys Gly Lys	Ser 430	Arg Tyr Leu Phe	Ala 435
Val Thr Gly Asn	Gly 440	Leu Ala Asn Gln	Gly 445	Asn Asn Pro Glu	Val 450
Gln Val Asp Thr	Ser 455	Lys Pro Asp Ile	Leu 460	Ile Leu Arg Gln	Ile 465
Met Ala Leu Arg	Val 470	Met Thr Ser Lys	Met 475	Lys Asn Ala Tyr	Asn 480
Gly Asn Asp Val	Asp 485	Phe Phe Asp Ile	Ser 490	Asp Glu Ser Ser	Gly 495
Glu Gly Ser Gly	Ser 500	Gly Cys Glu Tyr	Gln 505	Gln Cys Pro Ser	Glu 510
Phe Asp Tyr Asn	Ala 515	Thr Asp His Ala	Gly 520	Lys Ser Ala Asn	Glu 525
Lys Ala Asp Ser	Ala 530	Gly Val Arg Pro	Gly 535	Ala Gln Ala Tyr	Leu 540
Leu Thr Val Phe	Cys Ile Leu Phe	Leu Val Met Gln	Arg Glu Trp		

Arg

<210> 161
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 161
ctccgtggta aacccacag ccc 23

<210> 162
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 162
tcacatcgat gggatccatg accg 24

<210> 163
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 163
ggtctcgtga ctgtgaagcc atgttacaac tactgctcaa acatcatgag 50

<210> 164
<211> 870
<212> DNA
<213> Homo sapiens

<400> 164
ctcgccctca aatgggaacg ctggcctggg actaaagcat agaccaccag 50
gctgagtatc ctgacctgag tcatccccag ggatcaggag cctccagcag 100
ggaaccttcc attatattct tcaagcaact tacagctgca ccgacagttg 150
cgatgaaagt tctaattctt tccctcctcc tgttgctgcc actaatgctg 200
atgtccatgg tctctagcag cctgaatcca ggggtcgcca gaggccacag 250
ggaccgaggc caggcttcta ggagatggct ccaggaaggc ggccaagaat 300
gtgagtgcaa agattggttc ctgagagccc cgagaagaaa attcatgaca 350
gtgtctgggc tgccaaagaa gcagtgcccc tgtgatcatt tcaagggcaa 400
tgtgaagaaa acaagacacc aaaggcacca cagaaagcca aacaagcatt 450
ccagagcctg ccagcaattt ctcaacaat gtcagctaag aagctttgct 500
ctgcctttgt aggagctctg agcgccact cttccaatta aacatttcta 550
gccaagaaga cagtgagcac acctaccaga cactcttctt ctcccacctc 600

P2730P1sequencelisting.txt

actctccac tgtaccacc cctaaatcat tccagtgtc tcaaaaagca 650
 tgtttttcaa gatcattttg tttgttgctc tctctagtgt cttcttctct 700
 cgtcagtctt agcctgtgcc ctccccttac ccaggcttag gcttaattac 750
 ctgaaagatt ccaggaaact gtagcttcct agctagtgtc atttaacctt 800
 aaatgcaatc aggaaagtag caaacagaag tcaataaata tttttaaatg 850
 tcaaaaaaaaa aaaaaaaaaa 870

<210> 165
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 165
 Met Lys Val Leu Ile Ser Ser Leu Leu Leu Leu Leu Pro Leu Met 15
 1 5 10
 Leu Met Ser Met Val Ser Ser Ser Leu Asn Pro Gly Val Ala Arg 30
 20 25 30
 Gly His Arg Asp Arg Gly Gln Ala Ser Arg Arg Trp Leu Gln Glu 45
 35 40 45
 Gly Gly Gln Glu Cys Glu Cys Lys Asp Trp Phe Leu Arg Ala Pro 60
 50 55 60
 Arg Arg Lys Phe Met Thr Val Ser Gly Leu Pro Lys Lys Gln Cys 75
 65 70 75
 Pro Cys Asp His Phe Lys Gly Asn Val Lys Lys Thr Arg His Gln 90
 80 85 90
 Arg His His Arg Lys Pro Asn Lys His Ser Arg Ala Cys Gln Gln 105
 95 100 105
 Phe Leu Lys Gln Cys Gln Leu Arg Ser Phe Ala Leu Pro Leu 115
 110 115

<210> 166
 <211> 551
 <212> DNA
 <213> Homo sapiens

<400> 166
 aatggctgtc ttagtacttc gcctgacagt tgtcctggga ctgcttgtct 50
 tattcctgac ctgctatgca gacgacaaac cagacaagcc agacgacaag 100
 ccagacgact cgggcaaaga cccaaagcca gacttcccca aattcctaag 150
 cctcctgggc acagagatca ttgagaatgc agtcgagttc atcctccgct 200
 ccatgtccag gagcacagga tttatggaat ttgatgataa tgaaggaaaa 250
 cattcatcaa agtgacatcc tcaggacaca cccatgtggc tcctggacaa 300
 tccaagagca gccaaatcct gcttttccag tttggctcca caagtcctcc 350
 aggacagagc cctcaaagca actcccaacg agttctcagg attcaggctc 400
 tggcttcaac caaacagaac tcattttgaa caccctgact gcatttttgc 450
 ttttagaaag ttagaataaa tatggcgctt tgggatcaca tagttgatgg 500

agaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 550

a 551

<210> 167

<211> 87

<212> PRT

<213> Homo sapiens

<400> 167

Met Ala Val Leu Val Leu Arg Leu Thr Val Val Leu Gly Leu Leu
1 5 10 15

Val Leu Phe Leu Thr Cys Tyr Ala Asp Asp Lys Pro Asp Lys Pro
20 25 30

Asp Asp Lys Pro Asp Asp Ser Gly Lys Asp Pro Lys Pro Asp Phe
35 40 45

Pro Lys Phe Leu Ser Leu Leu Gly Thr Glu Ile Ile Glu Asn Ala
50 55 60

Val Glu Phe Ile Leu Arg Ser Met Ser Arg Ser Thr Gly Phe Met
65 70 75

Glu Phe Asp Asp Asn Glu Gly Lys His Ser Ser Lys
80 85

<210> 168

<211> 1371

<212> DNA

<213> Homo sapiens

<400> 168

ggacgccagc gcctgcagag gctgagcagg gaaaaagcca gtgccccagc 50

ggaagcacag ctacagagctg gtctgccatg gacatcctgg tcccactcct 100

gcagctgctg gtgctgcttc ttaccctgcc cctgcacctc atggctctgc 150

tgggctgctg gcagccccctg tgcaaaagct acttccccta cctgatggcc 200

gtgctgactc ccaagagcaa ccgcaagatg gagagcaaga aacgggagct 250

cttcagccag ataaaggggc ttacaggagc ctccgggaaa gtggccctac 300

tggagctggg ctgcggaacc ggagccaact ttcagttcta cccaccgggc 350

tgcagggtca cctgcctaga cccaaatccc cactttgaga agttcctgac 400

aaagagcatg gctgagaaca ggcacctcca atatgagcgg tttgtggtgg 450

ctcctggaga ggacatgaga cagctggctg atggctccat ggatgtggtg 500

gtctgcactc tgggtgctgtg ctctgtgcag agcccaagga aggtcctgca 550

ggaggtccgg agagtactga gaccgggagg tgtgctcttt ttctgggagc 600

atgtggcaga accatatgga agctgggcct tcatgtggca gcaagttttc 650

gagcccacct ggaaacacat tggggatggc tgctgcctca ccagagagac 700

ctggaaggat cttgagaacg cccagttctc cgaaatccaa atggaacgac 750

agccccctcc cttgaagtgg ctacctgttg ggccccacat catgggaaag 800

gctgtcaaac aatctttccc aagctccaag gcactcattt gctccttccc 850

P2730P1sequencelisting.txt

cagcctccaa ttagaacaag ccacccacca gcctatctat cttccactga 900
gagggaccta gcagaatgag agaagacatt catgtaccac ctactagtcc 950
ctctctcccc aacctctgcc agggcaatct ctaacttcaa tcccgccttc 1000
gacagtga aaagctctact tctacgctga cccagggagg aaacactagg 1050
accctgttgt atcctcaact gcaagtttct ggactagtct cccaacgttt 1100
gcctcccaat gttgtccctt tccttcgttc ccatggtaaa gctcctctcg 1150
ctttcctcct gaggtacac ccatgctgtc ctaggaactg gtcacaaaag 1200
tcatggtgcc tgcattccctg ccaagcccc ctgacctct ctccccacta 1250
ccaccttctt cctgagctgg gggcaccagg gagaatcaga gatgctgggg 1300
atgccagagc aagactcaaa gaggcagagg tttgttctc aaatattttt 1350
taataaatag acgaaaccac g 1371

<210> 169

<211> 277

<212> PRT

<213> Homo sapiens

<400> 169

Met	Asp	Ile	Leu	Val	Pro	Leu	Leu	Gln	Leu	Leu	Val	Leu	Leu	Leu
1				5					10					15
Thr	Leu	Pro	Leu	His	Leu	Met	Ala	Leu	Leu	Gly	Cys	Trp	Gln	Pro
				20					25					30
Leu	Cys	Lys	Ser	Tyr	Phe	Pro	Tyr	Leu	Met	Ala	Val	Leu	Thr	Pro
				35					40					45
Lys	Ser	Asn	Arg	Lys	Met	Glu	Ser	Lys	Lys	Arg	Glu	Leu	Phe	Ser
				50					55					60
Gln	Ile	Lys	Gly	Leu	Thr	Gly	Ala	Ser	Gly	Lys	Val	Ala	Leu	Leu
				65					70					75
Glu	Leu	Gly	Cys	Gly	Thr	Gly	Ala	Asn	Phe	Gln	Phe	Tyr	Pro	Pro
				80					85					90
Gly	Cys	Arg	Val	Thr	Cys	Leu	Asp	Pro	Asn	Pro	His	Phe	Glu	Lys
				95					100					105
Phe	Leu	Thr	Lys	Ser	Met	Ala	Glu	Asn	Arg	His	Leu	Gln	Tyr	Glu
				110					115					120
Arg	Phe	Val	Val	Ala	Pro	Gly	Glu	Asp	Met	Arg	Gln	Leu	Ala	Asp
				125					130					135
Gly	Ser	Met	Asp	Val	Val	Val	Cys	Thr	Leu	Val	Leu	Cys	Ser	Val
				140					145					150
Gln	Ser	Pro	Arg	Lys	Val	Leu	Gln	Glu	Val	Arg	Arg	Val	Leu	Arg
				155					160					165
Pro	Gly	Gly	Val	Leu	Phe	Phe	Trp	Glu	His	Val	Ala	Glu	Pro	Tyr
				170					175					180
Gly	Ser	Trp	Ala	Phe	Met	Trp	Gln	Gln	Val	Phe	Glu	Pro	Thr	Trp
				185					190					195
Lys	His	Ile	Gly	Asp	Gly	Cys	Cys	Leu	Thr	Arg	Glu	Thr	Trp	Lys

P2730P1sequencelisting.txt

200		205	210
Asp Leu Glu Asn	Ala Gln Phe Ser Glu	Ile Gln Met Glu Arg	Gln
215		220	225
Pro Pro Pro Leu	Lys Trp Leu Pro Val	Gly Pro His Ile Met	Gly
230		235	240
Lys Ala Val Lys	Gln Ser Phe Pro Ser	Ser Lys Ala Leu Ile	cys
245		250	255
Ser Phe Pro Ser	Leu Gln Leu Glu Gln	Ala Thr His Gln Pro	Ile
260		265	270
Tyr Leu Pro Leu	Arg Gly Thr		
275			

<210> 170
 <211> 1621
 <212> DNA
 <213> Homo sapiens

<400> 170
 gtgggattta tttgagtgc agatcgtttt ctgagtgggtg gtggaagtgt 50
 cctcatcgca ggcagatggt ggggctttgt ccgaacagct cccctctgcc 100
 agcttctgta gataagggtt aaaaactaat atttatatga cagaagaaaa 150
 agatgtcatt ccgtaaagta aacatcatca tcttggtcct ggctgttgct 200
 ctcttcttac tggttttgca ccataacttc ctgagcttga gcagtttggt 250
 aaggaatgag gttacagatt caggaattgt agggcctcaa cctatagact 300
 ttgtcccaaa tgctctccga catgcagtag atgggagaca agaggagatt 350
 cctgtgggtca tcgctgcac tgaagacagg cttggggggg ccattgcagc 400
 tataaacagc attcagcaca aactcgcct caatgtgatt ttctacattg 450
 ttactctcaa caatacagca gaccatctcc ggtcctggct caacagtgat 500
 tccctgaaaa gcatcagata caaaattgtc aattttgacc ctaaaacttt 550
 ggaaggaaaa gtaaaggagg atcctgacca gggggaatcc atgaaacctt 600
 taacctttgc aaggttctac ttgccaattc tggttcccag cgcaaagaag 650
 gccatataca tggatgatga tgtaattgtg caagggtgata ttcttgccct 700
 ttacaataca gcaactgaagc caggacatgc agctgcattt tcagaagatt 750
 gtgattcagc ctctactaaa gttgtcatcc gtggagcagg aaaccagtac 800
 aattacattg gctatcttga ctataaaaag gaaagaattc gtaagctttc 850
 catgaaagcc agcacttgct catttaatcc tggagttttt gttgcaaacc 900
 tgacggaatg gaaacgacag aatataacta accaactgga aaaatggatg 950
 aaactcaatg tagaagaggg actgtatagc agaaccctgg ctggtagcat 1000
 cacaacacct cctctgctta tcgtatttta tcaacagcac tctaccatcg 1050
 atcctatgtg gaatgtccgc caccttggtt ccagtgtctg aaaacgatat 1100
 tcacctcagt ttgtaaaggc tgccaagtta ctccattgga atggacattt 1150

P2730P1sequencelisting.txt

gaagccatgg ggaaggactg cttcatatac tgatgtttgg gaaaaatggg 1200
atattccaga cccaacaggc aaattcaacc taatccgaag atataccgag 1250
atctcaaaca taaagtgaaa cagaatttga actgtaagca agcattttctc 1300
aggaagtcct ggaagatagc atgcatggga agtaacagtt gctaggcttc 1350
aatgcctatc ggtagcaagc catggaaaaa gatgtgtcag ctaggtaaag 1400
atgacaaact gccctgtctg gcagtcagct tcccagacag actatagact 1450
ataaatatgt ctccatctgc cttaccaagt gttttcttac tacaatgctg 1500
aatgactgga aagaagaact gatatggcta gttcagctag ctggtacaga 1550
taattcaaaa ctgctgttgg ttttaatttt gtaacctgtg gcctgatctg 1600
taaataaaaac ttacatTTTT c 1621

<210> 171

<211> 371

<212> PRT

<213> Homo sapiens

<400> 171

Met	Ser	Phe	Arg	Lys	Val	Asn	Ile	Ile	Ile	Leu	Val	Leu	Ala	Val	1	5	10	15
Ala	Leu	Phe	Leu	Leu	Val	Leu	His	His	Asn	Phe	Leu	Ser	Leu	Ser	20	25	30	
Ser	Leu	Leu	Arg	Asn	Glu	Val	Thr	Asp	Ser	Gly	Ile	Val	Gly	Pro	35	40	45	
Gln	Pro	Ile	Asp	Phe	Val	Pro	Asn	Ala	Leu	Arg	His	Ala	Val	Asp	50	55	60	
Gly	Arg	Gln	Glu	Glu	Ile	Pro	Val	Val	Ile	Ala	Ala	Ser	Glu	Asp	65	70	75	
Arg	Leu	Gly	Gly	Ala	Ile	Ala	Ala	Ile	Asn	Ser	Ile	Gln	His	Asn	80	85	90	
Thr	Arg	Ser	Asn	Val	Ile	Phe	Tyr	Ile	Val	Thr	Leu	Asn	Asn	Thr	95	100	105	
Ala	Asp	His	Leu	Arg	Ser	Trp	Leu	Asn	Ser	Asp	Ser	Leu	Lys	Ser	110	115	120	
Ile	Arg	Tyr	Lys	Ile	Val	Asn	Phe	Asp	Pro	Lys	Leu	Leu	Glu	Gly	125	130	135	
Lys	Val	Lys	Glu	Asp	Pro	Asp	Gln	Gly	Glu	Ser	Met	Lys	Pro	Leu	140	145	150	
Thr	Phe	Ala	Arg	Phe	Tyr	Leu	Pro	Ile	Leu	Val	Pro	Ser	Ala	Lys	155	160	165	
Lys	Ala	Ile	Tyr	Met	Asp	Asp	Asp	Val	Ile	Val	Gln	Gly	Asp	Ile	170	175	180	
Leu	Ala	Leu	Tyr	Asn	Thr	Ala	Leu	Lys	Pro	Gly	His	Ala	Ala	Ala	185	190	195	
Phe	Ser	Glu	Asp	Cys	Asp	Ser	Ala	Ser	Thr	Lys	Val	Val	Ile	Arg	200	205	210	

P2730P1sequencelisting.txt

Gly	Ala	Gly	Asn	Gln	Tyr	Asn	Tyr	Ile	Gly	Tyr	Leu	Asp	Tyr	Lys
				215					220					225
Lys	Glu	Arg	Ile	Arg	Lys	Leu	Ser	Met	Lys	Ala	Ser	Thr	Cys	Ser
				230					235					240
Phe	Asn	Pro	Gly	Val	Phe	Val	Ala	Asn	Leu	Thr	Glu	Trp	Lys	Arg
				245					250					255
Gln	Asn	Ile	Thr	Asn	Gln	Leu	Glu	Lys	Trp	Met	Lys	Leu	Asn	Val
				260					265					270
Glu	Glu	Gly	Leu	Tyr	Ser	Arg	Thr	Leu	Ala	Gly	Ser	Ile	Thr	Thr
				275					280					285
Pro	Pro	Leu	Leu	Ile	Val	Phe	Tyr	Gln	Gln	His	Ser	Thr	Ile	Asp
				290					295					300
Pro	Met	Trp	Asn	Val	Arg	His	Leu	Gly	Ser	Ser	Ala	Gly	Lys	Arg
				305					310					315
Tyr	Ser	Pro	Gln	Phe	Val	Lys	Ala	Ala	Lys	Leu	Leu	His	Trp	Asn
				320					325					330
Gly	His	Leu	Lys	Pro	Trp	Gly	Arg	Thr	Ala	Ser	Tyr	Thr	Asp	Val
				335					340					345
Trp	Glu	Lys	Trp	Tyr	Ile	Pro	Asp	Pro	Thr	Gly	Lys	Phe	Asn	Leu
				350					355					360
Ile	Arg	Arg	Tyr	Thr	Glu	Ile	Ser	Asn	Ile	Lys				
				365					370					

<210> 172
 <211> 585
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 71, 76, 86, 91, 162, 220, 269, 281
 <223> unknown base

<400> 172
 tggtttttgc cccataaatt ccctcagctt gagcagtttg ttaaggaatg 50
 aggttacaga ttcaggaatt ntaggnccctc aacctntaga ntttgtccca 100
 aatgtttctcc gacatgcagt agatgggaga caagaggaga ttctgtggt 150
 catcgtgca tntgaagaca ggcttggggg ggccattgca gctataaaca 200
 gcattcagca caacactcgn tccaatgtga ttttctacat tgttactctc 250
 aacaatacag cagacatnt ccggtcctgg ntcaacagtg attccctgaa 300
 aagcatcaga taaaaaattg tcaattttga ccctaaactt ttggaaggaa 350
 aagtaaagga ggatcctgac cagggggaat ccatgaaacc tttaaccttt 400
 gcaaggttct acttgccaat tctggttccc agcgcaaaga aggccatata 450
 catggatgat gatgtaattg tgcaagggtga tattcttgcc ctttacaata 500
 cagcactgaa gccaggacat gcagctgcat tttcagaaga ttgtgattca 550
 gccttacta aagttgtcat ccgtggagca ggaaa 585

P2730P1sequencelisting.txt

<210> 173
 <211> 1866
 <212> DNA
 <213> Homo sapiens

<400> 173
 cgacgctcta gcggttaccg ctgcgggctg gctgggcgta gtggggctgc 50
 gcggctgcca cggagctaga gggcaagtgt gctcggccca gcgtgcaggg 100
 aacgcgggcg gccagacaac gggctgggct ccggggcctg cggcgcgggc 150
 gctgagctgg cagggcgggt cggggcgcg gctgcatccg catctcctcc 200
 atcgctgca gtaagggcgg ccgcggcgag cctttgaggg gaacgacttg 250
 tcggagccct aaccaggggt gtctctgagc ctggtgggat ccccgaggcg 300
 tcacatcact ttccgatcac ttcaaagtgg ttaaaaacta atatttatat 350
 gacagaagaa aaagatgtca ttccgtaaag taaacatcat catcttggtc 400
 ctgggctggt gctctcttct tactggtttt gcaccataac ttcctcagct 450
 tgaggcagtt tgtaaggaa tgaggttaca gattcaggaa ttgtagggcc 500
 tcaacctata ggactttgtc ccaaagtctc tccgacatgc agtagatggg 550
 agacaagagg agattcctgt ggtcatcgct gcatctgaag acaggcttgg 600
 gggggccatt gcagctataa acagcattca gcacaacact cgctccaatg 650
 tgattttcta cattgttact ctcaacaata cagcagacca tctccggtcc 700
 tgggctcaac agtgattccc tgaaaagcat cagatacaaa attgtcaatt 750
 ttgaccctaa acttttgga ggaagtaa aggaggatcc tgaccagggg 800
 gaatccatga aacctttaac ctttgcaagg ttctacttgc caattctggg 850
 ttcccagcgc aaagaaggcc atatacatgg atgatgatgt aattgtgcaa 900
 ggtgatattc ttgcccttta caatacagca ctgaagccag gacatgcagc 950
 tgcattttca gaagattgtg attcagcctc tactaaagtt gtcattccgtg 1000
 gagcaggaaa ccagtacaat tacattggct atcttgacta taaaaggaa 1050
 agaattcgta agctttccat gaaagccagc acttgctcat ttaatcctgg 1100
 agtttttggt gcaaacctga cggaatggaa acgacagaat ataactaacc 1150
 aactggaaaa atggatgaaa ctcaatgtag aagagggact gtatagcaga 1200
 accctggctg gtagcatcac aacacctct ctgcttatcg tattttatca 1250
 acagcactct accatcgatc ctatgtggaa tgtccgccac cttggttcca 1300
 gtgctgga aaacgatattca cctcagtttg taaaggctgc caagttactc 1350
 cattggaatg gacatttgaa gccatgggga aggactgctt catatactga 1400
 tgtttgggga aaaatggtat attccagacc caacaggcaa attcaacct 1450
 atccgaagat ataccgagat ctcaaacata aagtgaacaa gaatttgaac 1500
 tgtaagcaag catttctcag gaagtcctgg aagatagcat gcgtgggaag 1550

P2730P1sequencelisting.txt

taacagttgc taggcttcaa tgcctatcgg tagcaagcca tggaaaaaga 1600
 tgtgtcagct aggtaaagat gacaaactgc cctgtctggc agtcagcttc 1650
 ccagacagac tatagactat aaatatgtct ccattctgcct taccaagtgt 1700
 tttcttacta caatgctgaa tgactggaaa gaagaactga tatggctagt 1750
 tcagctagct ggtacagata attcaaaact gctgttggtt ttaattttgt 1800
 aacctgtggc ctgatctgta aataaaactt acatttttca ataggtaaaa 1850
 aaaaaaaaaa aaaaaa 1866

<210> 174
 <211> 823
 <212> DNA
 <213> Homo sapiens

<400> 174
 ctgcaggtag acatctccac tgcccaggaa tctactgagcg tgcagacagc 50
 acagcctcct ctgaaggccg gccataccag agtcctgcct cggcatgggc 100
 ctcaccattg aggagctcc actgtctgtg ctgggtctgag ggtgctgcct 150
 gtcattggggg cagccatctc ccagggggcc ctcattcgcca tcgtctgcaa 200
 cgggtctcgtg ggcttcttgc tgctgctgct ctgggtcatc ctctgctggg 250
 cctgccattc tcgtctgccg acgttgactc tctctctgaa tccagtccca 300
 actccagccc tggccccctgt cctgagaagg ccccaccacc ccagaagccc 350
 agccatgaag gcagctacct gctgcagccc tgaaggcccc tggcctagcc 400
 tggagcccag gacctaagtc cacctcacct agagcctgga attaggatcc 450
 cagagttcag ccagcctggg gtccagaact caagagtccg cctgcttggg 500
 gctggacca ggcggcccaga gtctagccag cttgggtcca ataggagctc 550
 agtggcccta aggagatggg cctgggggtgg gggcttatga gttggtgcta 600
 gagccagggc catctggact atgtccatc ccaagggcca agggtcaggg 650
 gccgggtcca ctctttccct aggctgagca cctctaggcc ctctaggttg 700
 ggggaagcaaa ctggaaccca tggcaataat aggaggggtgt ccaggctggg 750
 cccctcccct ggtcctccca gtgtttgctg gataataaat ggaactatgg 800
 ctctaaaaaa aaaaaaaaaa aaa 823

<210> 175
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 175
 Met Gly Ala Ala Ile Ser Gln Gly Ala Leu Ile Ala Ile Val Cys
 1 5 10 15
 Asn Gly Leu Val Gly Phe Leu Leu Leu Leu Trp Val Ile Leu
 20 25 30
 Cys Trp Ala Cys His Ser Arg Leu Pro Thr Leu Thr Leu Ser Leu

P2730P1sequencelisting.txt

35	40	45
Asn Pro Val Pro Thr Pro Ala Leu Ala Pro Val Leu Arg Arg Pro		
50	55	60
His His Pro Arg Ser Pro Ala Met Lys Ala Ala Thr Cys Cys Ser		
65	70	75
Pro Glu Gly Pro Trp Pro Ser Leu Glu Pro Arg Thr		
80	85	

<210> 176
 <211> 1660
 <212> DNA
 <213> Homo sapiens

<400> 176
 gtttgaattc cttcaactat acccacagtc caaaagcaga ctactgtgt 50
 cccaggctac cagttcctcc aagcaagtca tttcccttat ttaaccgatg 100
 tgtccctcaa acacctgagt gctactccct atttgcattt gttttgataa 150
 atgatgttga caccctccac cgaattctaa gtggaatcat gtcggaaga 200
 gatacaatcc ttggcctgtg tatcctcgca ttagccttgt ctttgccat 250
 gatgtttacc ttcagattca tcaccaccct tctggttcac attttcattt 300
 cattggttat tttgggattg ttgtttgtct gcggtgtttt atggtggctg 350
 tattatgact ataccaacga cctcagcata gaattggaca cagaaagga 400
 aaatatgaag tgcgtgctgg ggtttgctat cgtatccaca ggcattcacg 450
 cagtgtgct cgtcttgatt tttgttctca gaaagagaat aaaattgaca 500
 gttgagcttt tccaaatcac aaataaagcc atcagcagtg ctcccttctt 550
 gctgttccag cactgtgga catttgccat cctcattttt ttctgggtcc 600
 tctgggtggc tgtgtgctg agcctgggaa ctgcaggagc tgcccagggt 650
 atggaaggcg gccaaagtga atataagccc ctttcgggca ttcggtacat 700
 gtggtcgtac catttaattg gcctcatctg gactagtga ttcattcttg 750
 cgtgccagca aatgactata gctggggcag tggttacttg ttatttcaac 800
 agaagtaaaa atgatcctcc tgatcatccc atcctttcgt ctctctccat 850
 tctcttcttc taccatcaag gaaccgttgt gaaagggta tttttaatct 900
 ctgtggtgag gattccgaga atcattgtca tgtacatgca aaacgcactg 950
 aaagaacagc agcatggtgc attgtccagg tacctgttcc gatgctgcta 1000
 ctgctgtttc tgggtgtctg acaaatacct gctccatctc aaccagaatg 1050
 catatactac aactgctatt aatgggacag atttctgtac atcagcaaaa 1100
 gatgcattca aaatcttgtc caagaactca agtcacttta catctattaa 1150
 ctgcttttga gacttcataa tttttctagg aaaggtgtta gtggtgtgtt 1200
 tctactgtttt tggaggactc atggccttta actacaatcg ggcattccag 1250
 gtgtgggcag tccctctgtt attggttagct ttttttgcct acttagtagc 1300

P2730P1sequencelisting.txt

ccatagtttt ttatctgtgt ttgaaactgt gctggatgca cttttcctgt 1350
 gttttgctgt tgatctggaa acaaatgatg gatcgtcaga aaagccctac 1400
 tttatggatc aagaatttct gagtttcgta aaaaggagca acaaattaaa 1450
 caatgcaagg gcacagcagg acaagcactc attaaggaat gaggagggaa 1500
 cagaactcca ggccattgtg agatagatac ccatttaggt atctgtacct 1550
 ggaaaacatt tccttctaag agccatttac agaatagaag atgagaccac 1600
 tagagaaaag ttagtgaatt tttttttaa agacctaata aaccctattc 1650
 ttcttcaaaa 1660

<210> 177

<211> 445

<212> PRT

<213> Homo sapiens

<400> 177

Met	Ser	Gly	Arg	Asp	Thr	Ile	Leu	Gly	Leu	Cys	Ile	Leu	Ala	Leu
1				5					10					15
Ala	Leu	Ser	Leu	Ala	Met	Met	Phe	Thr	Phe	Arg	Phe	Ile	Thr	Thr
				20					25					30
Leu	Leu	Val	His	Ile	Phe	Ile	Ser	Leu	Val	Ile	Leu	Gly	Leu	Leu
				35					40					45
Phe	Val	Cys	Gly	Val	Leu	Trp	Trp	Leu	Tyr	Tyr	Asp	Tyr	Thr	Asn
				50					55					60
Asp	Leu	Ser	Ile	Glu	Leu	Asp	Thr	Glu	Arg	Glu	Asn	Met	Lys	Cys
				65					70					75
Val	Leu	Gly	Phe	Ala	Ile	Val	Ser	Thr	Gly	Ile	Thr	Ala	Val	Leu
				80					85					90
Leu	Val	Leu	Ile	Phe	Val	Leu	Arg	Lys	Arg	Ile	Lys	Leu	Thr	Val
				95					100					105
Glu	Leu	Phe	Gln	Ile	Thr	Asn	Lys	Ala	Ile	Ser	Ser	Ala	Pro	Phe
				110					115					120
Leu	Leu	Phe	Gln	Pro	Leu	Trp	Thr	Phe	Ala	Ile	Leu	Ile	Phe	Phe
				125					130					135
Trp	Val	Leu	Trp	Val	Ala	Val	Leu	Leu	Ser	Leu	Gly	Thr	Ala	Gly
				140					145					150
Ala	Ala	Gln	Val	Met	Glu	Gly	Gly	Gln	Val	Glu	Tyr	Lys	Pro	Leu
				155					160					165
Ser	Gly	Ile	Arg	Tyr	Met	Trp	Ser	Tyr	His	Leu	Ile	Gly	Leu	Ile
				170					175					180
Trp	Thr	Ser	Glu	Phe	Ile	Leu	Ala	Cys	Gln	Gln	Met	Thr	Ile	Ala
				185					190					195
Gly	Ala	Val	Val	Thr	Cys	Tyr	Phe	Asn	Arg	Ser	Lys	Asn	Asp	Pro
				200					205					210
Pro	Asp	His	Pro	Ile	Leu	Ser	Ser	Leu	Ser	Ile	Leu	Phe	Phe	Tyr
				215					220					225

P2730P1sequencelisting.txt

His	Gln	Gly	Thr	Val	Val	Lys	Gly	Ser	Phe	Leu	Ile	Ser	Val	Val
				230					235					240
Arg	Ile	Pro	Arg	Ile	Ile	Val	Met	Tyr	Met	Gln	Asn	Ala	Leu	Lys
				245					250					255
Glu	Gln	Gln	His	Gly	Ala	Leu	Ser	Arg	Tyr	Leu	Phe	Arg	Cys	Cys
				260					265					270
Tyr	Cys	Cys	Phe	Trp	Cys	Leu	Asp	Lys	Tyr	Leu	Leu	His	Leu	Asn
				275					280					285
Gln	Asn	Ala	Tyr	Thr	Thr	Thr	Ala	Ile	Asn	Gly	Thr	Asp	Phe	Cys
				290					295					300
Thr	Ser	Ala	Lys	Asp	Ala	Phe	Lys	Ile	Leu	Ser	Lys	Asn	Ser	Ser
				305					310					315
His	Phe	Thr	Ser	Ile	Asn	Cys	Phe	Gly	Asp	Phe	Ile	Ile	Phe	Leu
				320					325					330
Gly	Lys	Val	Leu	Val	Val	Cys	Phe	Thr	Val	Phe	Gly	Gly	Leu	Met
				335					340					345
Ala	Phe	Asn	Tyr	Asn	Arg	Ala	Phe	Gln	Val	Trp	Ala	Val	Pro	Leu
				350					355					360
Leu	Leu	Val	Ala	Phe	Phe	Ala	Tyr	Leu	Val	Ala	His	Ser	Phe	Leu
				365					370					375
Ser	Val	Phe	Glu	Thr	Val	Leu	Asp	Ala	Leu	Phe	Leu	Cys	Phe	Ala
				380					385					390
Val	Asp	Leu	Glu	Thr	Asn	Asp	Gly	Ser	Ser	Glu	Lys	Pro	Tyr	Phe
				395					400					405
Met	Asp	Gln	Glu	Phe	Leu	Ser	Phe	Val	Lys	Arg	Ser	Asn	Lys	Leu
				410					415					420
Asn	Asn	Ala	Arg	Ala	Gln	Gln	Asp	Lys	His	Ser	Leu	Arg	Asn	Glu
				425					430					435
Glu	Gly	Thr	Glu	Leu	Gln	Ala	Ile	Val	Arg					
				440					445					

<210> 178
 <211> 2773
 <212> DNA
 <213> Homo sapiens

<400> 178
 gttcgattag ctctcttgag aagaagagaa aaggttcttg gacctctccc 50
 tgtttcttcc ttagaataat ttgtatggga tttgtgatgc aggaaagcct 100
 aagggaataa gaatattcat tctgtgtggt gaaaattttt tgaaaaaaa 150
 attgccttct tcaaacaagg gtgtcattct gatatttatg aggactgttg 200
 ttctcactat gaaggcatct gttattgaaa tggtccttgt tttgctggtg 250
 actggagtac attcaaaca agaaacggca aagaagatta aaaggcccaa 300
 gttcactgtg cctcagatca actgcgatgt caaagccgga aagatcatcg 350
 atcctgagtt cattgtgaaa tgtccagcag gatgccaaga ccccaaatac 400
 catgtttatg gcactgacgt gtatgcatcc tactccagtg tgtgtggcgc 450

P2730P1sequencelisting.txt

tgccgtacac agtgggtgtgc ttgataattc aggagggaaa atacttggtc 500
 ggaagggtgc tggacagtct gggtacaaag ggagttattc caacgggtgc 550
 caatcgttat ccctaccacg atggagagaa tcctttatcg tcttagaaag 600
 taaacccaaa aagggtgtaa cctacccatc agctcttaca tactcatcat 650
 cgaaaagtcc agctgcccac gcaggtgaga ccacaaaagc ctatcagagg 700
 ccacctattc cagggacaac tgcacagccg gtcactctga tgcagcttct 750
 ggctgtcact gtagctgtgg ccacccccac caccttgcca aggccatccc 800
 cttctgctgc ttctaccacc agcatcccca gaccacaatc agtgggccac 850
 aggagccagg agatggatct ctggtcact gccacctaca caagcagcca 900
 aaacaggccc agagctgac caggtatcca aaggcaagat cttcaggag 950
 ctgccttcca gaaacctgtt ggagcggatg tcagcctggg acttggtcca 1000
 aaagaagaat tgagcacaca gtctttggag ccagtatccc tgggagatcc 1050
 aaactgcaaa attgacttgt cgtttttaat tgatgggagc accagcattg 1100
 gcaaacggcg attccgaatc cagaagcagc tcctggctga tgttgcccaa 1150
 gctcttgaca ttggccctgc cggtcactg atgggtgttg tccagtatgg 1200
 agacaaccct gctactcact ttaacctcaa gacacacacg aattctcgag 1250
 atctgaagac agccatagag aaaattactc agagaggagg actttctaata 1300
 gtaggtcggg ccatctcctt tgtgaccaag aacttctttt ccaaagccaa 1350
 tggaaacaga agcggggctc ccaatgtggt ggtggtgatg gtggatggct 1400
 ggcccacgga caaagtggag gaggcttcaa gacttgcgag agagtcagga 1450
 atcaacattt tcttcatcac cattgaaggt gctgctgaaa atgagaagca 1500
 gtatgtggtg gagcccaact ttgcaaaca ggccgtgtgc agaacaacg 1550
 gcttctactc gctccacgtg cagagctggt ttggcctcca caagaccctg 1600
 cagcctctgg tgaagcgggt ctgcgacact gaccgcctgg cctgcagcaa 1650
 gacctgcttg aactcggctg acattggctt cgtcatcgac ggctccagca 1700
 gtgtggggac gggcaacttc cgcaccgtcc tccagtttgt gaccaacctc 1750
 accaaagagt ttgagatttc cgacacggac acgcgcatcg gggccgtgca 1800
 gtacacctac gaacagcggc tggagtttgg gttcgacaag tacagcagca 1850
 agcctgacat cctcaacgcc atcaagaggg tgggctactg gagtgggtggc 1900
 accagcacgg gggctgccat caacttcgcc ctggagcagc tcttcaagaa 1950
 gtccaagccc aacaagagga agttaatgat cctcatcacc gacgggaggt 2000
 cctacgacga cgtccggatc ccagccatgg ctgcccattc gaaggagtg 2050
 atcacctatg cgataggcgt tgcctgggct gcccaagagg agctagaagt 2100
 cattgccact caccgcgcca gagaccactc cttctttgtg gacgagtttg 2150

P2730P1sequencelisting.txt

acaacctcca tcagtatgtc cccaggatca tccagaacat ttgtacagag 2200
 ttcaactcac agcctcggaa ctgaattcag agcaggcaga gcaccagcaa 2250
 gtgctgcttt actaactgac gtgttggacc accccaccgc ttaatggggc 2300
 acgcacggtg catcaagtct tgggcagggc atggagaaac aaatgtcttg 2350
 ttattattct ttgccatcat gctttttcat attccaaaac ttggagttac 2400
 aaagatgata acaaacgtat agaatgagcc aaaaggctac atcatgttga 2450
 ggggtgctga gattttacat tttgacaatt gttttcaaaa taaatgttcg 2500
 gaatacagtg cagcccttac gacaggctta cgtagagctt ttgtgagatt 2550
 ttttaagttgt tattttctgat ttgaactctg taaccctcag caagttttcat 2600
 ttttgtcatg acaatgtagg aattgctgaa ttaaattgtt agaaggatga 2650
 aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2700
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2750
 aaaaaaaaaa aaaaaaaaaa aag 2773

<210> 179

<211> 678

<212> PRT

<213> Homo sapiens

<400> 179

Met	Arg	Thr	Val	Val	Leu	Thr	Met	Lys	Ala	Ser	Val	Ile	Glu	Met
1				5					10					15
Phe	Leu	Val	Leu	Leu	Val	Thr	Gly	Val	His	Ser	Asn	Lys	Glu	Thr
			20						25					30
Ala	Lys	Lys	Ile	Lys	Arg	Pro	Lys	Phe	Thr	Val	Pro	Gln	Ile	Asn
			35						40					45
Cys	Asp	Val	Lys	Ala	Gly	Lys	Ile	Ile	Asp	Pro	Glu	Phe	Ile	Val
			50						55					60
Lys	Cys	Pro	Ala	Gly	Cys	Gln	Asp	Pro	Lys	Tyr	His	Val	Tyr	Gly
			65						70					75
Thr	Asp	Val	Tyr	Ala	Ser	Tyr	Ser	Ser	Val	Cys	Gly	Ala	Ala	Val
			80						85					90
His	Ser	Gly	Val	Leu	Asp	Asn	Ser	Gly	Gly	Lys	Ile	Leu	Val	Arg
			95						100					105
Lys	Val	Ala	Gly	Gln	Ser	Gly	Tyr	Lys	Gly	Ser	Tyr	Ser	Asn	Gly
			110						115					120
Val	Gln	Ser	Leu	Ser	Leu	Pro	Arg	Trp	Arg	Glu	Ser	Phe	Ile	Val
			125						130					135
Leu	Glu	Ser	Lys	Pro	Lys	Lys	Gly	Val	Thr	Tyr	Pro	Ser	Ala	Leu
			140						145					150
Thr	Tyr	Ser	Ser	Ser	Lys	Ser	Pro	Ala	Ala	Gln	Ala	Gly	Glu	Thr
			155						160					165
Thr	Lys	Ala	Tyr	Gln	Arg	Pro	Pro	Ile	Pro	Gly	Thr	Thr	Ala	Gln
			170						175					180

P2730P1sequencelisting.txt

Pro	Val	Thr	Leu	Met	Gln	Leu	Leu	Ala	Val	Thr	Val	Ala	Val	Ala
				185					190					195
Thr	Pro	Thr	Thr	Leu	Pro	Arg	Pro	Ser	Pro	Ser	Ala	Ala	Ser	Thr
				200					205					210
Thr	Ser	Ile	Pro	Arg	Pro	Gln	Ser	Val	Gly	His	Arg	Ser	Gln	Glu
				215					220					225
Met	Asp	Leu	Trp	Ser	Thr	Ala	Thr	Tyr	Thr	Ser	Ser	Gln	Asn	Arg
				230					235					240
Pro	Arg	Ala	Asp	Pro	Gly	Ile	Gln	Arg	Gln	Asp	Pro	Ser	Gly	Ala
				245					250					255
Ala	Phe	Gln	Lys	Pro	Val	Gly	Ala	Asp	Val	Ser	Leu	Gly	Leu	Val
				260					265					270
Pro	Lys	Glu	Glu	Leu	Ser	Thr	Gln	Ser	Leu	Glu	Pro	Val	Ser	Leu
				275					280					285
Gly	Asp	Pro	Asn	Cys	Lys	Ile	Asp	Leu	Ser	Phe	Leu	Ile	Asp	Gly
				290					295					300
Ser	Thr	Ser	Ile	Gly	Lys	Arg	Arg	Phe	Arg	Ile	Gln	Lys	Gln	Leu
				305					310					315
Leu	Ala	Asp	Val	Ala	Gln	Ala	Leu	Asp	Ile	Gly	Pro	Ala	Gly	Pro
				320					325					330
Leu	Met	Gly	Val	Val	Gln	Tyr	Gly	Asp	Asn	Pro	Ala	Thr	His	Phe
				335					340					345
Asn	Leu	Lys	Thr	His	Thr	Asn	Ser	Arg	Asp	Leu	Lys	Thr	Ala	Ile
				350					355					360
Glu	Lys	Ile	Thr	Gln	Arg	Gly	Gly	Leu	Ser	Asn	Val	Gly	Arg	Ala
				365					370					375
Ile	Ser	Phe	Val	Thr	Lys	Asn	Phe	Phe	Ser	Lys	Ala	Asn	Gly	Asn
				380					385					390
Arg	Ser	Gly	Ala	Pro	Asn	Val	Val	Val	Val	Met	Val	Asp	Gly	Trp
				395					400					405
Pro	Thr	Asp	Lys	Val	Glu	Glu	Ala	Ser	Arg	Leu	Ala	Arg	Glu	Ser
				410					415					420
Gly	Ile	Asn	Ile	Phe	Phe	Ile	Thr	Ile	Glu	Gly	Ala	Ala	Glu	Asn
				425					430					435
Glu	Lys	Gln	Tyr	Val	Val	Glu	Pro	Asn	Phe	Ala	Asn	Lys	Ala	Val
				440					445					450
Cys	Arg	Thr	Asn	Gly	Phe	Tyr	Ser	Leu	His	Val	Gln	Ser	Trp	Phe
				455					460					465
Gly	Leu	His	Lys	Thr	Leu	Gln	Pro	Leu	Val	Lys	Arg	Val	Cys	Asp
				470					475					480
Thr	Asp	Arg	Leu	Ala	Cys	Ser	Lys	Thr	Cys	Leu	Asn	Ser	Ala	Asp
				485					490					495
Ile	Gly	Phe	Val	Ile	Asp	Gly	Ser	Ser	Ser	Val	Gly	Thr	Gly	Asn
				500					505					510
Phe	Arg	Thr	Val	Leu	Gln	Phe	Val	Thr	Asn	Leu	Thr	Lys	Glu	Phe

P2730P1sequencelisting.txt

515		520		525
Glu Ile Ser Asp	Thr Asp Thr Arg Ile	Gly Ala Val Gln Tyr	Thr	
530		535	540	
Tyr Glu Gln Arg	Leu Glu Phe Gly Phe	Asp Lys Tyr Ser Ser	Lys	
545		550	555	
Pro Asp Ile Leu	Asn Ala Ile Lys Arg	Val Gly Tyr Trp Ser	Gly	
560		565	570	
Gly Thr Ser Thr	Gly Ala Ala Ile Asn	Phe Ala Leu Glu Gln	Leu	
575		580	585	
Phe Lys Lys Ser	Lys Pro Asn Lys Arg	Lys Leu Met Ile Leu	Ile	
590		595	600	
Thr Asp Gly Arg	Ser Tyr Asp Asp Val	Arg Ile Pro Ala Met	Ala	
605		610	615	
Ala His Leu Lys	Gly Val Ile Thr Tyr	Ala Ile Gly Val Ala	Trp	
620		625	630	
Ala Ala Gln Glu	Glu Leu Glu Val Ile	Ala Thr His Pro Ala	Arg	
635		640	645	
Asp His Ser Phe	Phe Val Asp Glu Phe	Asp Asn Leu His Gln	Tyr	
650		655	660	
Val Pro Arg Ile	Ile Gln Asn Ile Cys	Thr Glu Phe Asn Ser	Gln	
665		670	675	

Pro Arg Asn

<210> 180
 <211> 1759
 <212> DNA
 <213> Homo sapiens

<400> 180
 caggatgaac tggttgcagt ggctgctgct gctgcggggg cgctgagagg 50
 acacgagctc tatgcctttc cggctgctca tcccgcctcg cctcctgtgc 100
 gcgctgctgc ctcagcacca tggcgcgcca ggtcccgacg gctccgcgcc 150
 agatcccgcc cactacagtt tttctctgac tctaattgat gcactggaca 200
 ccttgctgat tttggggaat gtctcagaat tccaaagagt ggttgaagtg 250
 ctccaggaca gcgtggactt tgatattgat gtgaacgcct ctgtgtttga 300
 aacaaacatt cgagtggtag gaggactcct gtctgctcat ctgctctcca 350
 agaaggctgg ggtggaagta gaggctggat ggccctgttc cgggcctctc 400
 ctgagaatgg ctgaggaggc ggcccgaaaa ctctcccag cttttcagac 450
 cccactggc atgccatag gaacagtga cttacttcat ggcgtgaacc 500
 caggagagac ccctgtcacc tgtacggcag ggattgggac cttcattgtt 550
 gaatttgcca ccctgagcag cctcactggg gacccggtgt tcgaagatgt 600
 ggccagagtg gctttgatgc gcctctggga gagccggtca gatatcgggc 650
 tggtcggcaa ccacattgat gtgctcactg gcaagtgggt ggcccaggac 700

P2730P1sequencelisting.txt

gcaggcatcg gggctggcgt ggactcctac tttgagtact tggtgaaagg 750
agccatcctg cttcaggata agaagctcat ggccatgttc ctagagtata 800
acaaagccat ccggaactac acccgcttcg atgactggta cctgtgggtt 850
cagatgtaca aggggactgt gtccatgcca gtcttcagtc ccttgagggc 900
ctactggcct ggtcttcaga gcctcattgg agacattgac aatgccatga 950
ggaccttcct caactactac actgtatgga agcagtttgg ggggctcccg 1000
gaattctaca acattcctca gggatacaca gtggagaagc gagagggcta 1050
cccacttcgg ccagaactta ttgaaagcgc aatgtacctc taccgtgcca 1100
cgggggatcc caccctccta gaactcggaa gagatgctgt ggaatccatt 1150
gaaaaaatca gcaaggtgga gtgcggattt gcaacaatca aagatctgcg 1200
agaccacaag ctggacaacc gcatggagtc gttcttcctg gccgagactg 1250
tgaaatacct ctacctcctg tttgaccaa ccaacttcat ccacaacaat 1300
gggtccacct tcgacgcggt gatcacccc tatggggagt gcctcctggg 1350
ggctgggggg tacatcttca acacagaagc tcaccccatc gaccttgccg 1400
ccctgcactg ctgccagagg ctgaaggaag agcagtggga ggtggaggac 1450
ttgatgaggg aattctactc tctcaaacgg agcaggtcga aatttcagaa 1500
aaacactggt agttcggggc catgggaacc tccagcaagg ccaggaacac 1550
tcttctcacc agaaaaccat gaccaggcaa gggagaggaa gcctgccaaa 1600
cagaaggtcc cacttctcag ctgcccagtc cagcccttca cctccaagtt 1650
ggcattactg ggacaggttt tcctagactc ctcataacca ctggataatt 1700
tttttatttt tatttttttg aggctaaact ataataaatt gcttttggct 1750
atcataaaa 1759

<210> 181
<211> 541
<212> PRT
<213> Homo sapiens

<400> 181
Met Pro Phe Arg Leu Leu Ile Pro Leu Gly Leu Leu Cys Ala Leu
1 5 10 15
Leu Pro Gln His His Gly Ala Pro Gly Pro Asp Gly Ser Ala Pro
20 25 30
Asp Pro Ala His Tyr Ser Phe Ser Leu Thr Leu Ile Asp Ala Leu
35 40 45
Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg Val
50 55 60
Val Glu Val Leu Gln Asp Ser Val Asp Phe Asp Ile Asp Val Asn
65 70 75
Ala Ser Val Phe Glu Thr Asn Ile Arg Val Val Gly Gly Leu Leu
80 85 90

P2730P1sequencelisting.txt

Ser	Ala	His	Leu	Leu	Ser	Lys	Lys	Ala	Gly	Val	Glu	Val	Glu	Ala
				95					100					105
Gly	Trp	Pro	Cys	Ser	Gly	Pro	Leu	Leu	Arg	Met	Ala	Glu	Glu	Ala
				110					115					120
Ala	Arg	Lys	Leu	Leu	Pro	Ala	Phe	Gln	Thr	Pro	Thr	Gly	Met	Pro
				125					130					135
Tyr	Gly	Thr	Val	Asn	Leu	Leu	His	Gly	Val	Asn	Pro	Gly	Glu	Thr
				140					145					150
Pro	Val	Thr	Cys	Thr	Ala	Gly	Ile	Gly	Thr	Phe	Ile	Val	Glu	Phe
				155					160					165
Ala	Thr	Leu	Ser	Ser	Leu	Thr	Gly	Asp	Pro	Val	Phe	Glu	Asp	Val
				170					175					180
Ala	Arg	Val	Ala	Leu	Met	Arg	Leu	Trp	Glu	Ser	Arg	Ser	Asp	Ile
				185					190					195
Gly	Leu	Val	Gly	Asn	His	Ile	Asp	Val	Leu	Thr	Gly	Lys	Trp	Val
				200					205					210
Ala	Gln	Asp	Ala	Gly	Ile	Gly	Ala	Gly	Val	Asp	Ser	Tyr	Phe	Glu
				215					220					225
Tyr	Leu	Val	Lys	Gly	Ala	Ile	Leu	Leu	Gln	Asp	Lys	Lys	Leu	Met
				230					235					240
Ala	Met	Phe	Leu	Glu	Tyr	Asn	Lys	Ala	Ile	Arg	Asn	Tyr	Thr	Arg
				245					250					255
Phe	Asp	Asp	Trp	Tyr	Leu	Trp	Val	Gln	Met	Tyr	Lys	Gly	Thr	Val
				260					265					270
Ser	Met	Pro	Val	Phe	Gln	Ser	Leu	Glu	Ala	Tyr	Trp	Pro	Gly	Leu
				275					280					285
Gln	Ser	Leu	Ile	Gly	Asp	Ile	Asp	Asn	Ala	Met	Arg	Thr	Phe	Leu
				290					295					300
Asn	Tyr	Tyr	Thr	Val	Trp	Lys	Gln	Phe	Gly	Gly	Leu	Pro	Glu	Phe
				305					310					315
Tyr	Asn	Ile	Pro	Gln	Gly	Tyr	Thr	Val	Glu	Lys	Arg	Glu	Gly	Tyr
				320					325					330
Pro	Leu	Arg	Pro	Glu	Leu	Ile	Glu	Ser	Ala	Met	Tyr	Leu	Tyr	Arg
				335					340					345
Ala	Thr	Gly	Asp	Pro	Thr	Leu	Leu	Glu	Leu	Gly	Arg	Asp	Ala	Val
				350					355					360
Glu	Ser	Ile	Glu	Lys	Ile	Ser	Lys	Val	Glu	Cys	Gly	Phe	Ala	Thr
				365					370					375
Ile	Lys	Asp	Leu	Arg	Asp	His	Lys	Leu	Asp	Asn	Arg	Met	Glu	Ser
				380					385					390
Phe	Phe	Leu	Ala	Glu	Thr	Val	Lys	Tyr	Leu	Tyr	Leu	Leu	Phe	Asp
				395					400					405
Pro	Thr	Asn	Phe	Ile	His	Asn	Asn	Gly	Ser	Thr	Phe	Asp	Ala	Val
				410					415					420
Ile	Thr	Pro	Tyr	Gly	Glu	Cys	Ile	Leu	Gly	Ala	Gly	Gly	Tyr	Ile

P2730P1sequencelisting.txt

425		430	435
Phe Asn Thr Glu Ala His Pro Ile Asp Leu Ala Ala Leu His Cys			
440		445	450
Cys Gln Arg Leu Lys Glu Glu Gln Trp Glu Val Glu Asp Leu Met			
455		460	465
Arg Glu Phe Tyr Ser Leu Lys Arg Ser Arg Ser Lys Phe Gln Lys			
470		475	480
Asn Thr Val Ser Ser Gly Pro Trp Glu Pro Pro Ala Arg Pro Gly			
485		490	495
Thr Leu Phe Ser Pro Glu Asn His Asp Gln Ala Arg Glu Arg Lys			
500		505	510
Pro Ala Lys Gln Lys Val Pro Leu Leu Ser Cys Pro Ser Gln Pro			
515		520	525
Phe Thr Ser Lys Leu Ala Leu Leu Gly Gln Val Phe Leu Asp Ser			
530		535	540
Ser			

<210> 182
 <211> 2056
 <212> DNA
 <213> Homo sapiens

<400> 182
 aaagttacat tttctctgga actctcctag gccactccct gctgatgcaa 50
 catctgggtt tgggcagaaa ggagggtgct tcggagcccg ccctttctga 100
 gcttcctggg ccggctctag aacaattcag gcttcgctgc gactcagacc 150
 tcagctccaa catatgcatt ctgaagaaag atggctgaga tggacagaat 200
 gctttattttt ggaaagaaac aatgttctag gtcaaactga gtctaccaaa 250
 tgcagacttt cacaatgggt ctagaagaaa tctggacaag tcttttcatg 300
 tggtttttct acgcattgat tccatgtttg ctcacagatg aagtggccat 350
 tctgcctgcc cctcagaacc tctctgtact ctcaaccaac atgaagcatc 400
 tcttgatgtg gagcccagtg atcgcgcctg gagaaacagt gtactattct 450
 gtcgaatacc aggggggagta cgagagcctg tacacgagcc acatctggat 500
 ccccagcagc tgggtgctcac tcaactgaagg tcctgagtgt gatgtcactg 550
 atgacatcac ggccactgtg ccatacaacc ttcgtgtcag ggccacattg 600
 ggctcacaga cctcagcctg gagcatcctg aagcatccct ttaatagaaa 650
 ctcaaccatc cttacccgac ctgggatgga gatcaccaa gatggcttcc 700
 acctggttat tgagctggag gacctggggc ccagtttga gttccttgtg 750
 gcctactgga ggaggagacc tggtgccgag gaacatgtca aaatggtgag 800
 gagtgggggt attccagtg acctagaaac catggagcca ggggctgcat 850
 actgtgtgaa ggcccagaca ttcgtgaagg ccattgggag gtacagcgcc 900

P2730P1sequencelisting.txt

```

ttcagccaga cagaatgtgt ggaggtgcaa ggagaggcca ttcccctggt 950
actggccctg tttgcctttg ttggcttcat gctgatacct gtggtcgtgc 1000
cactgttcgt ctggaatatg ggccggctgc tccagtactc ctgttgcccc 1050
gtggtggtcc tcccagacac cttgaaaata accaattcac cccagaagtt 1100
aatcagctgc agaagggagg aggtggatgc ctgtgccacg gctgtgatgt 1150
ctcctgagga actcctcagg gcctggatct cataggtttg cggaagggcc 1200
caggtgaagc cgagaacctg gtctgcatga catggaaacc atgaggggac 1250
aagttgtgtt tctgttttcc gccacggaca agggatgaga gaagtaggaa 1300
gagcctgttg tctacaagtc tagaagcaac catcagaggc aggggtggtt 1350
gtctaacaga acactgactg aggccttaggg gatgtgacct ctagactggg 1400
ggctgccact tgctggctga gcaaccctgg gaaaagtgc ttcatccctt 1450
cggtcctaag ttttctcatc tgtaatgggg gaattaccta cacacctgct 1500
aaacacacac acacagagtc tctctctata tatacacacg tacacataaa 1550
tacaccagc acttgcaagg ctagagggaa actggtgaca ctctacagtc 1600
tgactgattc agtgtttctg gagagcagga cataaatgta tgatgagaat 1650
gatcaaggac tctacacact ggggtggctg gagagcccac tttcccagaa 1700
taatccttga gagaaaagga atcatgggag caatggtgtt gagttcactt 1750
caagcccaat gccggtgcag aggggaatgg cttagcgagc tctacagtag 1800
gtgacctgga ggaaggtcac agccacactg aaaatgggat gtgcatgaac 1850
acggaggatc catgaactac tgtaaagtgt tgacagtgtg tgcacactgc 1900
agacagcagg tgaaatgtat gtgtgcaatg cgacgagaat gcagaagtca 1950
gtaacatgtg catgtttgtt gtgtcctttt tttctgttgg taaagtacag 2000
aattcagcaa ataaaaaggg ccaccctggc caaaagcggg aaaaaaaaaa 2050
aaaaaa 2056

```

```

<210> 183
<211> 311
<212> PRT
<213> Homo sapiens

```

```

<220>
<221> signal peptide
<222> 1-29
<223> signal peptide

```

```

<220>
<221> N-glycosylation sites
<222> 40-43, 134-137
<223> N-glycosylation sites.

```

```

<220>
<221> Tissue factor proteins homology
<222> 92-119
<223> Tissue factor proteins homology

```

P2730P1sequencelisting.txt

<220>
 <221> Transmembrane domain
 <222> 230-255
 <223> Transmembrane domain

<220>
 <221> Integrins alpha chain protein homology
 <222> 232-262
 <223> Integrins alpha chain protein homology

<400> 183
 Met Gln Thr Phe Thr Met Val Leu Glu Glu Ile Trp Thr Ser Leu
 1 5 10 15
 Phe Met Trp Phe Phe Tyr Ala Leu Ile Pro Cys Leu Leu Thr Asp
 20 25 30
 Glu Val Ala Ile Leu Pro Ala Pro Gln Asn Leu Ser Val Leu Ser
 35 40 45
 Thr Asn Met Lys His Leu Leu Met Trp Ser Pro Val Ile Ala Pro
 50 55 60
 Gly Glu Thr Val Tyr Tyr Ser Val Glu Tyr Gln Gly Glu Tyr Glu
 65 70 75
 Ser Leu Tyr Thr Ser His Ile Trp Ile Pro Ser Ser Trp Cys Ser
 80 85 90
 Leu Thr Glu Gly Pro Glu Cys Asp Val Thr Asp Asp Ile Thr Ala
 95 100 105
 Thr Val Pro Tyr Asn Leu Arg Val Arg Ala Thr Leu Gly Ser Gln
 110 115 120
 Thr Ser Ala Trp Ser Ile Leu Lys His Pro Phe Asn Arg Asn Ser
 125 130 135
 Thr Ile Leu Thr Arg Pro Gly Met Glu Ile Thr Lys Asp Gly Phe
 140 145 150
 His Leu Val Ile Glu Leu Glu Asp Leu Gly Pro Gln Phe Glu Phe
 155 160 165
 Leu Val Ala Tyr Trp Arg Arg Glu Pro Gly Ala Glu Glu His Val
 170 175 180
 Lys Met Val Arg Ser Gly Gly Ile Pro Val His Leu Glu Thr Met
 185 190 195
 Glu Pro Gly Ala Ala Tyr Cys Val Lys Ala Gln Thr Phe Val Lys
 200 205 210
 Ala Ile Gly Arg Tyr Ser Ala Phe Ser Gln Thr Glu Cys Val Glu
 215 220 225
 Val Gln Gly Glu Ala Ile Pro Leu Val Leu Ala Leu Phe Ala Phe
 230 235 240
 Val Gly Phe Met Leu Ile Leu Val Val Val Pro Leu Phe Val Trp
 245 250 255
 Lys Met Gly Arg Leu Leu Gln Tyr Ser Cys Cys Pro Val Val Val
 260 265 270
 Leu Pro Asp Thr Leu Lys Ile Thr Asn Ser Pro Gln Lys Leu Ile
 275 280 285

P2730P1sequencelisting.txt

Ser Cys Arg Arg Glu Glu Val Asp Ala Cys Ala Thr Ala Val Met
290 295 300

Ser Pro Glu Glu Leu Leu Arg Ala Trp Ile Ser
305 310

<210> 184
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 654, 711, 748
<223> unknown base

<400> 184
tcctgctgat gcacatctgg gtttggcaaa aggaggttgc ttcgagccgc 50
cctttctagc ttcctggccg gctctagaac aattcaggct tcgctgcgac 100
tagacctcag ctccaacata tgcattctga agaaagatgg ctgagatgac 150
agaatgcttt attttggaaa gaaacaatgt tctaggtcaa actgagtcta 200
ccaaatgcag actttcacaa tgggttctaga agaaatctgg acaagtcttt 250
tcatgtggtt tttctacgca ttgattccat gtttgctcac agatgaagtg 300
gccattctgc ctgccccca gaacctctct gtactctcaa ccaacatgaa 350
gcatctcttg atgtggagcc cagtgatcgc gcctggagaa acagtgtact 400
attctgtcga ataccagggg gagtacgaga gcctgtacac gagccacatc 450
tggatcccca gcagctggtg ctcaactact gaaggtcctg agtgtgatgt 500
cactgatgac atcacggcca ctgtgccata caacctttgt gtcagggcca 550
cattgggctc acagacctca gcctggagca tcctgaagca tccctttaat 600
agaaactcaa ccacacctac ccgacctggg atggagatca ccaaagatgg 650
cttncacctg gttattgagc tggaggacct ggggccccag tttgagttcc 700
ttgtggccta ntggaggagg ggcgaacccc ttgcggcgca aggggttngc 750
gaacccttg cggccgctgg ggtatctctc gagaaaagag aggcccaata 800
tgaccac 808

<210> 185
<211> 23
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 185
aggcttcgct gcgactagac ctc 23

<210> 186
<211> 24
<212> DNA
<213> Artificial sequence

<220>

<223> synthetic oligonucleotide probe

<400> 186
ccaggtcggg taaggatggt tgag 24

<210> 187

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 187
tttctacgca ttgattccat gtttgctcac agatgaagtg gccattctgc 50

<210> 188

<211> 1227

<212> DNA

<213> Homo sapiens

<400> 188
cggacgcgtg ggccgccacc tccggaacaa gccatggtgg cggcgacggt 50
ggcagcggcg tggctgctcc tgtgggctgc ggcctgcgcg cagcaggagc 100
aggacttcta cgacttcaag gcggtcaaca tccggggcaa actggtgtcg 150
ctggagaagt accgcggatc ggtgtccctg gtggtgaatg tggccagcga 200
gtgcggcttc acagaccagc actaccgagc cctgcagcag ctgcagcgag 250
acctggggcc ccaccacttt aacgtgctcg cttccccctg caaccagttt 300
ggccaacagg agcctgacag caacaaggag attgagagct ttgcccgccg 350
cacctacagt gtctcattcc ccatgtttag caagattgca gtcaccggta 400
ctggtgcca tctgccttc aagtacctgg cccagacttc tgggaaggag 450
cccacctgga acttctggaa gtacctagta gcccagatg gaaagggtgt 500
aggggcttgg gacccaactg tgtcagtgga ggaggtcaga ccccagatca 550
cagcgtctgt gaggaagctc atcctactga agcgagaaga cttataacca 600
ccgcgtctcc tctccacca cctcatccc cccacctgtg tggggctgac 650
caatgcaaac tcaaatggtg cttcaaaggg agagaccac tgactctcct 700
tcctttactc ttatgccatt ggtcccatca ttcttggtgg ggaaaaattc 750
tagtattttg attatttgaa tcttacagca acaaatagga actcctggcc 800
aatgagagct cttgaccagt gaatcaccag ccgatacgaa cgtcttgcca 850
acaaaaatgt gtggcaaata gaagtatatc aagcaataat ctcccacca 900
aggcttctgt aaactgggac caatgattac ctcatagggc tgttgtgagg 950
attaggatga aatacctgtg aaagtgccta ggcagtgcca gccaaatagg 1000
aggcattcaa tgaacatttt ttgcatataa accaaaaaat aacttgttat 1050
caataaaaac ttgcatccaa catgaatttc cagccgatga taatccaggc 1100
caaaggttta gttgttgta tttcctctgt attattttct tcattacaaa 1150

P2730P1sequencelisting.txt

agaaatgcaa gttcattgta acaatccaaa caatacctca cgatataaaa 1200

taaaaatgaa agtatcctcc tcaaaaa 1227

<210> 189

<211> 187

<212> PRT

<213> Homo sapiens

<400> 189

Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala
1 5 10 15

Ala Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala
20 25 30

Val Asn Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly
35 40 45

Ser Val Ser Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr
50 55 60

Asp Gln His Tyr Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly
65 70 75

Pro His His Phe Asn Val Leu Ala Phe Pro Cys Asn Gln Phe Gly
80 85 90

Gln Gln Glu Pro Asp Ser Asn Lys Glu Ile Glu Ser Phe Ala Arg
95 100 105

Arg Thr Tyr Ser Val Ser Phe Pro Met Phe Ser Lys Ile Ala Val
110 115 120

Thr Gly Thr Gly Ala His Pro Ala Phe Lys Tyr Leu Ala Gln Thr
125 130 135

Ser Gly Lys Glu Pro Thr Trp Asn Phe Trp Lys Tyr Leu Val Ala
140 145 150

Pro Asp Gly Lys Val Val Gly Ala Trp Asp Pro Thr Val Ser Val
155 160 165

Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val Arg Lys Leu Ile
170 175 180

Leu Leu Lys Arg Glu Asp Leu
185

<210> 190

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 190

gcaggatttc tacgacttca aggc 24

<210> 191

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

P2730P1sequencelisting.txt

<400> 191
agtcctgggcc aggtacttga aggc 24

<210> 192
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 192
caacatccgg ggcaaactgg tgtcgtctga gaagtaccgc ggatcgggtg 50

<210> 193
<211> 2187
<212> DNA
<213> Homo sapiens

<400> 193
cggacgcgtg ggcgggccgg gacgcagggc aaagcgagcc atggctgtct 50
acgtcgggat gctgcgcctg gggaggctgt gcgccgggag ctccgggggtg 100
ctggggggccc gggccgcctt ctctcggagt tggcaggaag ccaggttgca 150
gggtgtccgc ttcctcagtt ccagagaggt ggatcgcatt gtctccacgc 200
ccatcggagg cctcagctac gttcaggggt gcacaaaaa gcatcttaac 250
agcaagactg tgggccagtg cctggagacc acagcacaga gggcccaga 300
acgagaggcc ttggctgtcc tccatgaaga cgtcagggtg acctttgccc 350
aactcaagga ggaggaggac aaagctgctt ctggcctcct gagcattggc 400
ctctgcaaag gtgaccggct gggcatgtgg ggacctaact cctatgcatg 450
gggtgtcatg cagttggcca ccgcccaggc gggcatcatt ctgggtgtctg 500
tgaaccagc ctaccaggct atggaactgg agtatgtcct caagaagggtg 550
ggctgcaagg cccttggtgtt cccaagcaa ttcaagacc agcaatacta 600
caacgtcctg aagcagatct gtccagaagt ggagaatgcc cagccagggg 650
ccttgaagag tcagaggctc ccagatctga ccacagtcatt ctccgtggat 700
gcccctttgc cggggaccct gctcctggat gaagtgggtg cggctggcag 750
cacacggcag catctggacc agctccaata caaccagcag ttcctgtcct 800
gcatgaccc catcaacatc cagttcacct cggggacaac aggcagcccc 850
aagggggcca ccctctccca ctacaacatt gtcaacaact ccaacatttt 900
aggagagcgc ctgaaactgc atgagaagac accagagcag ttgcggatga 950
tcctgccccaa cccctgtac cattgcctgg gttccgtggc aggcacaatg 1000
atgtgtctga tgtacggtgc caccctcatc ctggcctctc ccatcttcaa 1050
tggcaagaag gactggagg ccatcagcag agagagaggc accttctgt 1100
atggtacccc cacgatgttc gtggacattc tgaaccagcc agacttctcc 1150
agttatgaca tctcgaccat gtgtggaggt gtcattgctg ggtcccctgc 1200

P2730P1sequencelisting.txt

acctccagag ttgatccgag ccatcatcaa caagataaat atgaaggacc 1250
 tgggtggttgc ttatggaacc acagagaaca gtcccgtgac attcgcgcac 1300
 ttccctgagg acactgtgga gcagaaggca gaaagcgtgg gcagaattat 1350
 gcctcacacg gaggcccgga tcatgaacat ggaggcaggg acgctggcaa 1400
 agctgaacac gcccgggggag ctgtgcatcc gaggggtactg cgtcatgctg 1450
 ggctactggg gtgagcctca gaagacagag gaagcagtgg atcaggacaa 1500
 gtggtattgg acaggagatg tcgccacaat gaatgagcag ggcttctgca 1550
 agatcgtggg ccgctctaag gatatgatca tccgggggtgg tgagaacatc 1600
 taccgccgag agctcgagga cttctttcac acacacccga aggtgcagga 1650
 agtgcaggtg gtgggagtga aggacgatcg gatgggggaa gagatttgtg 1700
 cctgcattcg gctgaaggac ggggaggaga ccacggtgga ggagataaaa 1750
 gctttctgca aagggagat ctctcacttc aagattccga agtacatcgt 1800
 gtttgtcaca aactaccccc tcaccatttc aggaaagatc cagaaattca 1850
 aacttcgaga gcagatggaa cgacatctaa atctgtgaat aaagcagcag 1900
 gcctgtcctg gccggttggc ttgactctct cctgtcagaa tgcaacctgg 1950
 ctttatgcac ctagatgtcc ccagcaccca gttctgagcc aggcacatca 2000
 aatgtcaagg aattgactga acgaactaag agctcctgga tgggtccggg 2050
 aactgcctg ggcacaaggc gccaaaaggc aggcagcctg cccaggccct 2100
 ccctcctgtc catccccac attcccctgt ctgtccttgt gatttggcat 2150
 aaagagcttc tgttttcttt gaaaaaaaaa aaaaaaa 2187

<210> 194

<211> 615

<212> PRT

<213> Homo sapiens

<400> 194

Met	Ala	Val	Tyr	Val	Gly	Met	Leu	Arg	Leu	Gly	Arg	Leu	Cys	Ala
1				5					10				15	
Gly	Ser	Ser	Gly	Val	Leu	Gly	Ala	Arg	Ala	Ala	Leu	Ser	Arg	Ser
			20					25					30	
Trp	Gln	Glu	Ala	Arg	Leu	Gln	Gly	Val	Arg	Phe	Leu	Ser	Ser	Arg
			35					40					45	
Glu	Val	Asp	Arg	Met	Val	Ser	Thr	Pro	Ile	Gly	Gly	Leu	Ser	Tyr
			50					55					60	
Val	Gln	Gly	Cys	Thr	Lys	Lys	His	Leu	Asn	Ser	Lys	Thr	Val	Gly
			65					70					75	
Gln	Cys	Leu	Glu	Thr	Thr	Ala	Gln	Arg	Val	Pro	Glu	Arg	Glu	Ala
			80					85					90	
Leu	Val	Val	Leu	His	Glu	Asp	Val	Arg	Leu	Thr	Phe	Ala	Gln	Leu
			95					100					105	
Lys	Glu	Glu	Val	Asp	Lys	Ala	Ala	Ser	Gly	Leu	Leu	Ser	Ile	Gly

P2730P1sequencelisting.txt

110	115	120
Leu Cys Lys Gly Asp Arg Leu Gly Met Trp Gly Pro Asn Ser Tyr	125	135
Ala Trp Val Leu Met Gln Leu Ala Thr Ala Gln Ala Gly Ile Ile	140	150
Leu Val Ser Val Asn Pro Ala Tyr Gln Ala Met Glu Leu Glu Tyr	155	165
Val Leu Lys Lys Val Gly Cys Lys Ala Leu Val Phe Pro Lys Gln	170	180
Phe Lys Thr Gln Gln Tyr Tyr Asn Val Leu Lys Gln Ile Cys Pro	185	195
Glu Val Glu Asn Ala Gln Pro Gly Ala Leu Lys Ser Gln Arg Leu	200	210
Pro Asp Leu Thr Thr Val Ile Ser Val Asp Ala Pro Leu Pro Gly	215	225
Thr Leu Leu Leu Asp Glu Val Val Ala Ala Gly Ser Thr Arg Gln	230	240
His Leu Asp Gln Leu Gln Tyr Asn Gln Gln Phe Leu Ser Cys His	245	255
Asp Pro Ile Asn Ile Gln Phe Thr Ser Gly Thr Thr Gly Ser Pro	260	270
Lys Gly Ala Thr Leu Ser His Tyr Asn Ile Val Asn Asn Ser Asn	275	285
Ile Leu Gly Glu Arg Leu Lys Leu His Glu Lys Thr Pro Glu Gln	290	300
Leu Arg Met Ile Leu Pro Asn Pro Leu Tyr His Cys Leu Gly Ser	305	315
Val Ala Gly Thr Met Met Cys Leu Met Tyr Gly Ala Thr Leu Ile	320	330
Leu Ala Ser Pro Ile Phe Asn Gly Lys Lys Ala Leu Glu Ala Ile	335	345
Ser Arg Glu Arg Gly Thr Phe Leu Tyr Gly Thr Pro Thr Met Phe	350	360
Val Asp Ile Leu Asn Gln Pro Asp Phe Ser Ser Tyr Asp Ile Ser	365	375
Thr Met Cys Gly Gly Val Ile Ala Gly Ser Pro Ala Pro Pro Glu	380	390
Leu Ile Arg Ala Ile Ile Asn Lys Ile Asn Met Lys Asp Leu Val	395	405
Val Ala Tyr Gly Thr Thr Glu Asn Ser Pro Val Thr Phe Ala His	410	420
Phe Pro Glu Asp Thr Val Glu Gln Lys Ala Glu Ser Val Gly Arg	425	435
Ile Met Pro His Thr Glu Ala Arg Ile Met Asn Met Glu Ala Gly	440	450

P2730P1sequencelisting.txt

Thr	Leu	Ala	Lys	Leu	Asn	Thr	Pro	Gly	Glu	Leu	Cys	Ile	Arg	Gly
				455					460					465
Tyr	Cys	Val	Met	Leu	Gly	Tyr	Trp	Gly	Glu	Pro	Gln	Lys	Thr	Glu
				470					475					480
Glu	Ala	Val	Asp	Gln	Asp	Lys	Trp	Tyr	Trp	Thr	Gly	Asp	Val	Ala
				485					490					495
Thr	Met	Asn	Glu	Gln	Gly	Phe	Cys	Lys	Ile	Val	Gly	Arg	Ser	Lys
				500					505					510
Asp	Met	Ile	Ile	Arg	Gly	Gly	Glu	Asn	Ile	Tyr	Pro	Ala	Glu	Leu
				515					520					525
Glu	Asp	Phe	Phe	His	Thr	His	Pro	Lys	Val	Gln	Glu	Val	Gln	Val
				530					535					540
Val	Gly	Val	Lys	Asp	Asp	Arg	Met	Gly	Glu	Glu	Ile	Cys	Ala	Cys
				545					550					555
Ile	Arg	Leu	Lys	Asp	Gly	Glu	Glu	Thr	Thr	Val	Glu	Glu	Ile	Lys
				560					565					570
Ala	Phe	Cys	Lys	Gly	Lys	Ile	Ser	His	Phe	Lys	Ile	Pro	Lys	Tyr
				575					580					585
Ile	Val	Phe	Val	Thr	Asn	Tyr	Pro	Leu	Thr	Ile	Ser	Gly	Lys	Ile
				590					595					600
Gln	Lys	Phe	Lys	Leu	Arg	Glu	Gln	Met	Glu	Arg	His	Leu	Asn	Leu
				605					610					615

<210> 195
 <211> 642
 <212> DNA
 <213> Homo sapiens

<400> 195
 caactccaac attttaggag agcgcctgaa actgcatgag aagacaccag 50
 agcagttgcg gatgatcctg cccaaccccc tgtaccattg cctggggttcc 100
 gtggcaggca caatgatgtg tctgatgtac ggtgccaccc tcctcctggc 150
 ctctcccatc ttcaatggca agaaggcact ggaggccatc agcagagaga 200
 gaggcacctt cctgtatggg acccccacga tgttcgtgga cattctgaac 250
 cagccagact tctccagtta tgacatctcg accatgtgtg gaggtgtcat 300
 tgctgggtcc cctgcacctc cagagttgat ccgagccatc atcaacaaga 350
 taaatatgaa ggacctgggt gttgcttatg gaaccacaga gaacagtccc 400
 gtgacattcg cgcacttccc tgaggacact gtggagcaga aggcagaaag 450
 cgtgggcaga attatgcctc acacggaggc gcggatcatg aacatggagg 500
 cagggacgct ggcaaagctg aacacgcccg gggagctgtg catccgaggg 550
 tactgctca tgctgggcta ctgggggtgag cctcagaaga cagaggaagc 600
 agtggatcag gacaagtggg attggacagg agatgtcgcc ac 642

<210> 196
 <211> 1575
 <212> DNA

<213> Homo sapiens

<400> 196

gagcaggacg gagccatgga ccccgccagg aaagcaggtg cccaggccat 50
 gatctggact gcaggctggc tgctgctgct gctgcttcgc ggaggagcgc 100
 aggccctgga gtgctacagc tgcgtgcaga aagcagatga cggatgctcc 150
 ccgaacaaga tgaagacagt gaagtgcgcg ccgggcgctg acgtctgcac 200
 cgaggccgtg ggggcggtg agaccatcca cggacaattc tcgctggcag 250
 tgcgggggtg cggttcggga ctccccggca agaatgaccg cggcctggat 300
 cttcacgggc ttctggcggt catccagctg cagcaatgcg ctcaggatcg 350
 ctgcaacgcc aagctcaacc tcacctcgcg ggcgctcgac ccggcaggta 400
 atgagagtgc ataccgccc aacggcggtg agtgctacag ctgtgtgggc 450
 ctgagccggg aggcgtgcca gggtagatcg ccgccggtcg tgagctgcta 500
 caacgccagc gatcatgtct acaagggtg cttcgacggc aacgtcacct 550
 tgacggcagc taatgtgact gtgtccttgc ctgtccgggg ctgtgtccag 600
 gatgaattct gcactcggga tggagtaaca ggcccagggt tcacgctcag 650
 tggctcctgt tgccaggggt cccgctgtaa ctctgacctc cgcaacaaga 700
 cctacttctc cctcgaatc ccaccccttg tccggctgcc cctccagag 750
 cccacgactg tggcctcaac cacatctgtc accacttcta cctcggcccc 800
 agtgagaccc acatccacca ccaaaccat gccagcgcca accagtcaga 850
 ctecagagaca gggagtagaa cacgaggcct cccgggatga ggagcccagg 900
 ttgactggag gcgccgctg ccaccaggac cgcagcaatt cagggcagta 950
 tcctgcaaaa ggggggcccc agcagccca taataaaggc tgtgtggctc 1000
 ccacagctgg attggcagcc cttctgttgg ccgtggctgc tgggtgtccta 1050
 ctgtgagctt ctccacctgg aaatttcctt ctcacctact tctctggccc 1100
 tgggtacccc tcttctcatc acttcctgtt cccaccactg gactgggctg 1150
 gccagcccc tgtttttcca acattcccca gtatccccag cttctgctgc 1200
 gctggtttgc ggctttggga aataaaatac cgttgtatat attctgccag 1250
 ggggtgttcta gctttttgag gacagctcct gtatccttct catccttgtc 1300
 tctccgcttg tcctcttgtg atgttaggac agagtgcagc aagtcagctg 1350
 tcacggggaa ggtgagagag aggatgctaa gcttcctact cactttctcc 1400
 tagccagcct ggactttgga gcgtggggtg ggtgggacaa tggctcccca 1450
 ctctaagcac tgccctccct actccccgca tctttgggga atcggttccc 1500
 catatgtctt cttactaga ctgtgagctc ctcgaggggg ggcccgtac 1550
 ccaattcgcc ctatagtgag tcgta 1575

<210> 197

P2730P1sequencelisting.txt

<211> 346

<212> PRT

<213> Homo sapiens

<400> 197

```

Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr
 1      5      10      15
Ala Gly Trp Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala
      20      25      30
Leu Glu Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser
      35      40      45
Pro Asn Lys Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val
      50      55      60
Cys Thr Glu Ala Val Gly Ala Val Glu Thr Ile His Gly Gln Phe
      65      70      75
Ser Leu Ala Val Arg Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn
      80      85      90
Asp Arg Gly Leu Asp Leu His Gly Leu Leu Ala Phe Ile Gln Leu
      95     100     105
Gln Gln Cys Ala Gln Asp Arg Cys Asn Ala Lys Leu Asn Leu Thr
     110     115     120
Ser Arg Ala Leu Asp Pro Ala Gly Asn Glu Ser Ala Tyr Pro Pro
     125     130     135
Asn Gly Val Glu Cys Tyr Ser Cys Val Gly Leu Ser Arg Glu Ala
     140     145     150
Cys Gln Gly Thr Ser Pro Pro Val Val Ser Cys Tyr Asn Ala Ser
     155     160     165
Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn Val Thr Leu Thr
     170     175     180
Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly Cys Val Gln
     185     190     195
Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly Phe Thr
     200     205     210
Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp Leu
     215     220     225
Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg
     230     235     240
Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val
     245     250     255
Thr Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys
     260     265     270
Pro Met Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu
     275     280     285
His Glu Ala Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala
     290     295     300
Ala Gly His Gln Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys
     305     310     315

```

P2730P1sequencelisting.txt

Gly Gly Pro Gln Gln Pro His Asn Lys Gly Cys Val Ala Pro Thr
320 325 330

Ala Gly Leu Ala Ala Leu Leu Leu Ala Val Ala Ala Gly Val Leu
335 340 345

Leu

<210> 198
<211> 1657
<212> DNA
<213> Homo sapiens

<400> 198
cgggactcgg cgggtcctcc tgggagtctc ggaggggacc ggctgtgcag 50
acgccatgga gttggtgctg gtcttcctct gcagcctgct ggcccccatg 100
gtcctggcca gtgcagctga aaaggagaag gaaatggacc cttttcatta 150
tgattaccag accctgagga ttgggggact ggtgttcgct gtggtcctct 200
tctcggttgg gatcctcctt atcctaagtc gcaggtgcaa gtgcagtttc 250
aatcagaagc cccgggcccc aggagatgag gaagcccagg tggagaacct 300
catcaccgcc aatgcaacag agccccagaa gcagagaact gaagtgcagc 350
catcaggtgg aagcctctgg aacctgaggc ggctgcttga acctttggat 400
gcaaagtctg atgcttaaga aaaccggcca cttcagcaac agccctttcc 450
ccaggagaag ccaagaactt gtgtgtcccc caccctatcc cctctaacac 500
cattcctcca cctgatgatg caactaacac ttgcctcccc actgcagcct 550
gcggtcctgc ccacctcccg tgatgtgtgt gtgtgtgtgt gtgtgtgact 600
gtgtgtgttt gctaactgtg gtctttgtgg ctacttgttt gtggatggta 650
ttgtgtttgt tagtgaactg tggactcgct ttcccaggca ggggctgagc 700
cacatggcca tctgctcctc cctgcccccg tggccctcca tcaccttctg 750
ctcctaggag gctgcttggt gcccagagacc agccccctcc cctgatttag 800
ggatgcgtag ggtaagagca cgggcagtgg tcttcagtcg tcttgggacc 850
tgggaagggt tgcagcactt tgtcatcatt cttcatggac tcctttcact 900
cctttaacaa aaaccttgct tccttatccc acctgatccc agtctgaagg 950
tctcttagca actggagata caaagcaagg agctggtgag cccagcgttg 1000
acgtcaggca ggctatgccc ttccgtgggt aatttcttcc caggggcttc 1050
cacgaggagt ccccatctgc cccgccccct cacagagcgc ccggggattc 1100
caggcccagg gcttctactc tgccccctggg gaatgtgtcc cctgcatatc 1150
ttctcagcaa taactccatg ggctctggga ccctaccct tccaaccttc 1200
cctgcttctg agacttcaat ctacagccca gctcatccag atgcagacta 1250
cagtcctctg aattgggtct ctggcaggca atagttgaag gactcctgtt 1300
ccgttggggc cagcacaccg ggatggatgg agggagagca gaggcctttg 1350

P2730P1sequencelisting.txt

cttctctgcc tacgtcccct tagatgggca gcagaggcaa ctcccgcattc 1400
 ctttgctctg cctgtcggtg gtcagagcgg tgagcgaggt gggttggaga 1450
 ctcagcaggc tccgtgcagc ccttgggaac agtgagaggt tgaaggatcat 1500
 aacgagagtg ggaactcaac ccagatcccg cccctcctgt cctctgtgtt 1550
 cccgcggaaa ccaaccaaac cgtgcgctgt gaccattgc tgttctctgt 1600
 atcgtgatct atcctcaaca acaacagaaa aaaggaataa aatatccttt 1650
 gtttct 1657

<210> 199
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 199
 Met Glu Leu Val Leu Val Phe Leu Cys Ser Leu Leu Ala Pro Met 15
 1 5 10
 Val Leu Ala Ser Ala Ala Glu Lys Glu Lys Glu Met Asp Pro Phe 30
 20 25 30
 His Tyr Asp Tyr Gln Thr Leu Arg Ile Gly Gly Leu Val Phe Ala 45
 35 40 45
 Val Val Leu Phe Ser Val Gly Ile Leu Leu Ile Leu Ser Arg Arg 60
 50 55 60
 Cys Lys Cys Ser Phe Asn Gln Lys Pro Arg Ala Pro Gly Asp Glu 75
 65 70 75
 Glu Ala Gln Val Glu Asn Leu Ile Thr Ala Asn Ala Thr Glu Pro 90
 80 85 90
 Gln Lys Gln Arg Thr Glu Val Gln Pro Ser Gly Gly Ser Leu Trp 105
 95 100 105
 Asn Leu Arg Arg Leu Leu Glu Pro Leu Asp Ala Asn Val Asp Ala 120
 110 115 120

<210> 200
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 200
 aaacttgacg ccatgaagat cccggtcctt cctgccgtgg tgctcctctc 50
 cctcctggtg ctccactctg ccagggagc caccctgggt ggtcctgagg 100
 aagaaagcac cattgagaat tatgcgtcac gacccgaggc ctttaacacc 150
 ccgttcctga acatcgacaa attgcatct gcgtttaagg ctgatgagtt 200
 cctgaactgg cagccctct ttgagtctat caaaaggaaa cttcctttcc 250
 tcaactggga tgcctttcct aagctgaaag gactgaggag cgcaactcct 300
 gatgccagtg gaccatgacc tccactggaa gaggggggcta gcgtgagcgc 350
 tgatttctcaa cctaccataa ctctttcctg cctcaggaac tccaataaaa 400
 cattttccat ccaaa 415

P2730P1sequencelisting.txt

<210> 201
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 201
 Met Lys Ile Pro Val Leu Pro Ala Val Val Leu Leu Ser Leu Leu
 1 5 10 15
 Val Leu His Ser Ala Gln Gly Ala Thr Leu Gly Gly Pro Glu Glu
 20 25 30
 Glu Ser Thr Ile Glu Asn Tyr Ala Ser Arg Pro Glu Ala Phe Asn
 35 40 45
 Thr Pro Phe Leu Asn Ile Asp Lys Leu Arg Ser Ala Phe Lys Ala
 50 55 60
 Asp Glu Phe Leu Asn Trp His Ala Leu Phe Glu Ser Ile Lys Arg
 65 70 75
 Lys Leu Pro Phe Leu Asn Trp Asp Ala Phe Pro Lys Leu Lys Gly
 80 85 90
 Leu Arg Ser Ala Thr Pro Asp Ala Gln
 95

<210> 202
 <211> 678
 <212> DNA
 <213> Homo sapiens

<400> 202
 cagttctgaa atcaatggag ttaatttagg gaatacaaac cagccatggg 50
 ggtggagatt gcctttgcct cagtgtattct cacctgcctc tcccttctgg 100
 cagcaggagt ctcccagggt gttcttctcc agccagttcc aactcaggag 150
 acaggtccca aggccatggg agatctctcc tgtggctttg ccggccactc 200
 atgagagtgt ttttgtgtaa agtatttttt agaatactgt tgacttcttc 250
 atgatttaat aaccatcctt tgcgaagttt tatgaggctt taggggaatg 300
 tcaaccctca aatttttggt atactagatg gcttccattt acccaccact 350
 attttaaggt ccttttattt ttaggttcaa gggtcatttg acttgagaaa 400
 gtgcccttct gcagcttcat tgattttggt tatcttcact attaattgta 450
 acgattaaaa aagaataaga gcacgcagac ctctaggaga atattttatc 500
 cctgggtgcc cctgacacat ttatgtagtg atcccacaaa tgtgattggt 550
 aatttaaatg ttatttctaatt attagtacat tcagttgtga tgtaatatga 600
 ataaccagaa tctatttctt aaaagttttg agtatatttt tcaactagat 650
 atttgatatg aaagactgaa tagtgatg 678

<210> 203
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 203

P2730P1sequencelisting.txt

Met Gly Val Glu Ile Ala Phe Ala Ser Val Ile Leu Thr Cys Leu
 1 5 10 15
 Ser Leu Leu Ala Ala Gly Val Ser Gln Val Val Leu Leu Gln Pro
 20 25 30
 Val Pro Thr Gln Glu Thr Gly Pro Lys Ala Met Gly Asp Leu Ser
 35 40 45
 Cys Gly Phe Ala Gly His Ser
 50

<210> 204
 <211> 1917
 <212> DNA
 <213> Homo sapiens

<400> 204
 ggggaatctg cagtaggtct gccggcgatg gagtgggtggg ctagctcgcc 50
 gcttcggctc tggctgctgt tgttcctcct gccctcagcg cagggccgcc 100
 agaaggagtc aggttcaaaa tggaaagtat ttattgacca aattaacagg 150
 tctttggaga attacgaacc atgttcaagt caaaactgca gctgctacca 200
 tgggtgtcata gaagaggatc taactccttt ccgaggaggc atctccagga 250
 agatgatggc agaggtagtc agacggaagc tagggaccca ctatcagatc 300
 actaagaaca gactgtaccg ggaaaatgac tgcattgtcc cctcaagggtg 350
 tagtgggtgtt gagcacttta ttttgggaagt gatcgggcgt ctccctgaca 400
 tggagatggt gatcaatgta cgagattatc ctcaggttcc taaatggatg 450
 gagcctgcc a tcccagtcct ctccttcagt aagacatcag agtaccatga 500
 tatcatgtat cctgcttgga cattttggga agggggacct gctgtttggc 550
 caatttatcc tacagggtctt ggacgggtggg acctcttcag agaagatctg 600
 gtaagggtcag cagcacagtg gccatggaaa aagaaaaact ctacagcata 650
 tttccgagga tcaaggacaa gtccagaacg agatcctctc attcttctgt 700
 ctcggaaaaa cccaaaactt gttgatgcag aatacaccaa aaaccaggcc 750
 tggaaatcta tgaaagatac cttaggaaag ccagctgcta aggatgtcca 800
 tcttgtggat cactgcaaat acaagtatct gtttaatttt cgaggcgtag 850
 ctgcaagttt ccggtttaaa cacctcttcc tgtgtggctc acttgttttc 900
 catgttgggtg atgagtggct agaattcttc tatccacagc tgaagccatg 950
 ggttcactat atcccagtc aaacagatct ctccaatgtc caagagctgt 1000
 tacaatttgt aaaagcaa at gatgatgtag ctcaagagat tgctgaaagg 1050
 ggaagccagt ttattaggaa ccatttgcag atggatgaca tcacctgtta 1100
 ctgggagaac ctcttgagtg aatactctaa attcctgtct tataatgtaa 1150
 cgagaaggaa aggttatgat caaattattc ccaaatgtt gaaaactgaa 1200
 ctatagtagt catcatagga ccatagtcct ctttgtggca acagatctca 1250

P2730P1sequencelisting.txt

gatatcctac ggtgagaagc ttaccataag cttggctcct ataccttgaa 1300
 tatctgctat caagccaaat acctggtttt ccttatcatg ctgcacccag 1350
 agcaactctt gagaaagatt taaaatgtgt ctaatacact gatatgaagc 1400
 agttcaactt tttggatgaa taaggaccag aaatcgtgag atgtggattt 1450
 tgaaccaaac tctacctttc attttcttaa gaccaatcac agcttgtgcc 1500
 tcagatcatc cacctgtgtg agtccatcac tgtgaaattg actgtgtcca 1550
 tgtgatgatg ccccttgtcc cattatttgg agcagaaaat tcgtcatttg 1600
 gaagtagtac aactcattgc tggaattgtg aaattattca aggcgtgatc 1650
 tctgtcactt tattttaatg taggaaaccc tatgggggtt atgaaaaata 1700
 cttggggatc attctctgaa tggcttaagg aagcggtagc catgccatgc 1750
 aatgatgtag gagttctctt ttgtaaaacc ataaactctg ttactcagga 1800
 ggtttctata atgccacata gaaagaggcc aattgcatga gtaattattg 1850
 caattggatt tcaggttccc tttttgtgcc ttcatgcctt acttcttaat 1900
 gcctctctaa agccaaa 1917

<210> 205
 <211> 392
 <212> PRT
 <213> Homo sapiens

<400> 205
 Met Glu Trp Trp Ala Ser Ser Pro Leu Arg Leu Trp Leu Leu Leu
 1 5 10 15
 Phe Leu Leu Pro Ser Ala Gln Gly Arg Gln Lys Glu Ser Gly Ser
 20 25 30
 Lys Trp Lys Val Phe Ile Asp Gln Ile Asn Arg Ser Leu Glu Asn
 35 40 45
 Tyr Glu Pro Cys Ser Ser Gln Asn Cys Ser Cys Tyr His Gly Val
 50 55 60
 Ile Glu Glu Asp Leu Thr Pro Phe Arg Gly Gly Ile Ser Arg Lys
 65 70 75
 Met Met Ala Glu Val Val Arg Arg Lys Leu Gly Thr His Tyr Gln
 80 85 90
 Ile Thr Lys Asn Arg Leu Tyr Arg Glu Asn Asp Cys Met Phe Pro
 95 100 105
 Ser Arg Cys Ser Gly Val Glu His Phe Ile Leu Glu Val Ile Gly
 110 115 120
 Arg Leu Pro Asp Met Glu Met Val Ile Asn Val Arg Asp Tyr Pro
 125 130 135
 Gln Val Pro Lys Trp Met Glu Pro Ala Ile Pro Val Phe Ser Phe
 140 145 150
 Ser Lys Thr Ser Glu Tyr His Asp Ile Met Tyr Pro Ala Trp Thr
 155 160 165
 Phe Trp Glu Gly Gly Pro Ala Val Trp Pro Ile Tyr Pro Thr Gly

P2730P1sequencelisting.txt

170	175	180
Leu Gly Arg Trp Asp 185	Leu Phe Arg Glu Asp 190	Leu Val Arg Ser Ala 195
Ala Gln Trp Pro Trp 200	Lys Lys Lys Asn Ser 205	Thr Ala Tyr Phe Arg 210
Gly Ser Arg Thr Ser 215	Pro Glu Arg Asp Pro 220	Leu Ile Leu Leu Ser 225
Arg Lys Asn Pro Lys 230	Leu Val Asp Ala Glu 235	Tyr Thr Lys Asn Gln 240
Ala Trp Lys Ser Met 245	Lys Asp Thr Leu Gly 250	Lys Pro Ala Ala Lys 255
Asp Val His Leu Val 260	Asp His Cys Lys Tyr 265	Lys Tyr Leu Phe Asn 270
Phe Arg Gly Val Ala 275	Ala Ser Phe Arg Phe 280	Lys His Leu Phe Leu 285
Cys Gly Ser Leu Val 290	Phe His Val Gly Asp 295	Glu Trp Leu Glu Phe 300
Phe Tyr Pro Gln Leu 305	Lys Pro Trp Val His 310	Tyr Ile Pro Val Lys 315
Thr Asp Leu Ser Asn 320	Val Gln Glu Leu Leu 325	Gln Phe Val Lys Ala 330
Asn Asp Asp Val Ala 335	Gln Glu Ile Ala Glu 340	Arg Gly Ser Gln Phe 345
Ile Arg Asn His Leu 350	Gln Met Asp Asp Ile 355	Thr Cys Tyr Trp Glu 360
Asn Leu Leu Ser Glu 365	Tyr Ser Lys Phe Leu 370	Ser Tyr Asn Val Thr 375
Arg Arg Lys Gly Tyr 380	Asp Gln Ile Ile Pro 385	Lys Met Leu Lys Thr 390

Glu Leu

<210> 206
 <211> 1425
 <212> DNA
 <213> Homo sapiens

<400> 206
 caccctcca tttctcgcca tggcccctgc actgctcctg atccctgctg 50
 ccctcgctc tttcatcctg gcctttggca ccggagtgga gttcgtgcgc 100
 ttacctccc ttcggccact tcttgaggagg atcccggagt ctggtggtcc 150
 ggatgccgc cagggatggc tggctgccct gcaggaccgc agcatccttg 200
 cccccctggc atgggatctg gggctcctgc ttctatttgt tgggcagcac 250
 agcctcatgg cagctgaaag agtgaaggca tggacatccc ggtacttttg 300
 ggtccttcag aggtcactgt atgtggcctg cactgccctg gccttcagc 350
 tggatgatgcg gtactgggag cccataccca aaggccctgt gttgtgggag 400

P2730P1sequencelisting.txt

gctcgggctg agccatgggc cacctgggtg ccgctcctct gctttgtgct 450
ccatgtcatc tcctggctcc tcattcttag catccttctc gtctttgact 500
atgctgagct catgggcctc aaacaggtat actaccatgt gctggggctg 550
ggcgagcctc tggccctgaa gtctccccgg gctctcagac tcttctcca 600
cctgcgccac ccagtgtgtg tggagctgct gacagtgtg tgggtggtgc 650
ctaccctggg cacggaccgt ctctccttg ctttcctcct taccctctac 700
ctgggcctgg ctacgggct tgatcagcaa gacctccgct acctccgggc 750
ccagctacaa agaaaactcc acctgtcttc tcggccccag gatggggagg 800
cagagtgagg agctcactct gggtacaagc cctgttcttc ctctcccact 850
gaattctaaa tccttaacat ccaggccctg gctgcttcat gccagaggcc 900
caaatccatg gactgaagga gatgccccct ctactacttg agactttatt 950
ctctgggtcc agctccatac cctaaattct gagtttcagc cactgaactc 1000
caagggtcac ttctcaccag caaggaagag tggggtatgg aagtcactctg 1050
tcccttact gtttagagca tgacactctc cccctcaaca gcctcctgag 1100
aaggaaagga tctgccctga ccaactcccct ggcactgtta cttgcctctg 1150
cgctcaggg gtcccccttct gcaccgctgg cttccactcc aagaagggtg 1200
accagggtct gcaagttcaa cggtcatagc tgtccctcca ggcccccaacc 1250
ttgcctcacc actcccggcc ctagtctctg cacctcctta ggccctgcct 1300
ctgggctcag accccaacct agtcaagggg attctcctgc tcttaactcg 1350
atgacttggg gctccctgct ctcccagga agatgctctg caggaaaata 1400
aaagtcagcc tttttctaaa aaaaa 1425

<210> 207

<211> 262

<212> PRT

<213> Homo sapiens

<400> 207

Met	Ala	Pro	Ala	Leu	Leu	Leu	Ile	Pro	Ala	Ala	Leu	Ala	Ser	Phe
1				5					10					15
Ile	Leu	Ala	Phe	Gly	Thr	Gly	Val	Glu	Phe	Val	Arg	Phe	Thr	Ser
				20					25					30
Leu	Arg	Pro	Leu	Leu	Gly	Gly	Ile	Pro	Glu	Ser	Gly	Gly	Pro	Asp
				35					40					45
Ala	Arg	Gln	Gly	Trp	Leu	Ala	Ala	Leu	Gln	Asp	Arg	Ser	Ile	Leu
				50					55					60
Ala	Pro	Leu	Ala	Trp	Asp	Leu	Gly	Leu	Leu	Leu	Phe	Val	Gly	
				65					70					75
Gln	His	Ser	Leu	Met	Ala	Ala	Glu	Arg	Val	Lys	Ala	Trp	Thr	Ser
				80					85					90
Arg	Tyr	Phe	Gly	Val	Leu	Gln	Arg	Ser	Leu	Tyr	Val	Ala	Cys	Thr

P2730P1sequencelisting.txt

95	100	105
Ala Leu Ala Leu Gln Leu Val Met Arg Tyr Trp Glu Pro Ile	Pro	
110	115	120
Lys Gly Pro Val Leu Trp Glu Ala Arg Ala Glu Pro Trp Ala Thr		
125	130	135
Trp Val Pro Leu Leu Cys Phe Val Leu His Val Ile Ser Trp Leu		
140	145	150
Leu Ile Phe Ser Ile Leu Leu Val Phe Asp Tyr Ala Glu Leu Met		
155	160	165
Gly Leu Lys Gln Val Tyr Tyr His Val Leu Gly Leu Gly Glu Pro		
170	175	180
Leu Ala Leu Lys Ser Pro Arg Ala Leu Arg Leu Phe Ser His Leu		
185	190	195
Arg His Pro Val Cys Val Glu Leu Leu Thr Val Leu Trp Val Val		
200	205	210
Pro Thr Leu Gly Thr Asp Arg Leu Leu Leu Ala Phe Leu Leu Thr		
215	220	225
Leu Tyr Leu Gly Leu Ala His Gly Leu Asp Gln Gln Asp Leu Arg		
230	235	240
Tyr Leu Arg Ala Gln Leu Gln Arg Lys Leu His Leu Leu Ser Arg		
245	250	255
Pro Gln Asp Gly Glu Ala Glu		
260		

<210> 208

<211> 2095

<212> DNA

<213> Homo sapiens

<400> 208

```

ccgagcacag gagattgcct gcgttttagga ggtggctgcg ttgtgggaaa 50
agctatcaag gaagaaattg ccaaaccatg tctttttttc tgttttcaga 100
gtagttcaca acagatctga gtgttttaat taagcatgga atacagaaaa 150
caacaaaaaa cttaagcttt aatttcatct ggaattccac agttttctta 200
gctccctgga cccggttgac ctgttggtc ttcccgctgg ctgctctatc 250
acgtggtgct ctccgactac tcaccccgag tgtaaagaac cttcggtctg 300
cgtgcttctg agctgctgtg gatggcctcg gctctctgga ctgtccttcc 350
gagtaggatg tctactgagat ccctcaaag gagcctctg ctgctgtcac 400
tcctgagttt ctttgtgatg tggtagctca gccttcccca ctacaatgtg 450
atagaacgag tgaactggat gtacttctat gagtatgagc cgatttacag 500
acaagacttt cacttcacac ttcgagagca ttcaaactgc tctcatcaaa 550
atccatttct ggtcattctg gtgacctccc acccttcaga tgtgaaagcc 600
aggcaggcca ttagagttac ttgggggtgaa aaaaagtctt ggtggggata 650
tgaggttctt acatttttct tattaggcca agaggctgaa aaggaagaca 700

```

P2730P1sequencelisting.txt

aaatgttggc attgtcctta gaggatgaac accttcttta tggtagacata 750
 atccgacaag attttttaga cacatataat aacctgacct tgaaaaccat 800
 tatggcattc aggtgggtaa ctgagttttg cccaatgcc aagtacgtaa 850
 tgaagacaga cactgatggt ttcatcaata ctggcaattt agtgaagtat 900
 cttttaaacc taaaccactc agagaagttt ttcacagggt atcctctaata 950
 tgataattat tcctatagag gattttacca aaaaacccat atttcttacc 1000
 aggagtatcc tttcaagggt ttccctccat actgcagtgg gttgggttat 1050
 ataatgtcca gagatttggg gccaaaggatc tatgaaatga tgggtcacgt 1100
 aaaacccatc aagtttgaag atgtttatgt cgggatctgt ttgaatttat 1150
 taaaagtga cttcatatt ccagaagaca caaatctttt ctttctatat 1200
 agaatccatt tggatgtctg tcaactgaga cgtgtgattg cagcccatgg 1250
 cttttcttcc aaggagatca tcactttttg gcaggatcatg ctaaggaaca 1300
 ccacatgcc ttattaactt cacattctac aaaaagccta gaaggacagg 1350
 ataccttgtg gaaagtgtta aataaagtag gtactgtgga aaattcatgg 1400
 ggaggtcagt gtgctggctt acactgaact gaaactcatg aaaaaccag 1450
 actggagact ggagggttac acttgtgatt tattagtcag gcccttcaaa 1500
 gatgatatgt ggaggaatta aatataaagg aattggaggt ttttgctaaa 1550
 gaaattaata ggaccaaaca atttggacat gtcattctgt agactagaat 1600
 ttcttaaaag ggtgttactg agttataagc tcactaggct gtaaaaacaa 1650
 aacaatgtag agttttattt attgaacaat gtagtcactt gaaggttttg 1700
 tgtatatctt atgtggatta ccaatttaaa aatatatgta gttctgtgtc 1750
 aaaaaacttc ttactgaag ttatactgaa caaaatttta cctgtttttg 1800
 gtcatttata aagtacttca agatgttgca gtatttcaca gttattatta 1850
 tttaaaatta cttcaacttt gtgtttttta atgttttgac gatttcaata 1900
 caagataaaa aggatagtga atcattcttt acatgcaaac attttccagt 1950
 tacttaactg atcagtttat tattgataca tcactccatt aatgtaaagt 2000
 cataggtcat tattgcatat cagtaatctc ttggactttg ttaaataattt 2050
 tactgtggtg atatagagaa gaattaaagc aagaaaatct gaaaa 2095

<210> 209

<211> 331

<212> PRT

<213> Homo sapiens

<400> 209

Met Ala Ser Ala Leu Trp Thr Val Leu Pro Ser Arg Met Ser Leu
 1 5 10 15

Arg Ser Leu Lys Trp Ser Leu Leu Leu Leu Ser Leu Leu Ser Phe
 20 25 30

P2730P1sequencelisting.txt

Phe Val Met Trp Tyr Leu Ser Leu Pro His Tyr Asn Val Ile Glu
 35 40 45
 Arg Val Asn Trp Met Tyr Phe Tyr Glu Tyr Glu Pro Ile Tyr Arg
 50 55 60
 Gln Asp Phe His Phe Thr Leu Arg Glu His Ser Asn Cys Ser His
 65 70 75
 Gln Asn Pro Phe Leu Val Ile Leu Val Thr Ser His Pro Ser Asp
 80 85 90
 Val Lys Ala Arg Gln Ala Ile Arg Val Thr Trp Gly Glu Lys Lys
 95 100 105
 Ser Trp Trp Gly Tyr Glu Val Leu Thr Phe Phe Leu Leu Gly Gln
 110 115 120
 Glu Ala Glu Lys Glu Asp Lys Met Leu Ala Leu Ser Leu Glu Asp
 125 130 135
 Glu His Leu Leu Tyr Gly Asp Ile Ile Arg Gln Asp Phe Leu Asp
 140 145 150
 Thr Tyr Asn Asn Leu Thr Leu Lys Thr Ile Met Ala Phe Arg Trp
 155 160 165
 Val Thr Glu Phe Cys Pro Asn Ala Lys Tyr Val Met Lys Thr Asp
 170 175 180
 Thr Asp Val Phe Ile Asn Thr Gly Asn Leu Val Lys Tyr Leu Leu
 185 190 195
 Asn Leu Asn His Ser Glu Lys Phe Phe Thr Gly Tyr Pro Leu Ile
 200 205 210
 Asp Asn Tyr Ser Tyr Arg Gly Phe Tyr Gln Lys Thr His Ile Ser
 215 220 225
 Tyr Gln Glu Tyr Pro Phe Lys Val Phe Pro Pro Tyr Cys Ser Gly
 230 235 240
 Leu Gly Tyr Ile Met Ser Arg Asp Leu Val Pro Arg Ile Tyr Glu
 245 250 255
 Met Met Gly His Val Lys Pro Ile Lys Phe Glu Asp Val Tyr Val
 260 265 270
 Gly Ile Cys Leu Asn Leu Leu Lys Val Asn Ile His Ile Pro Glu
 275 280 285
 Asp Thr Asn Leu Phe Phe Leu Tyr Arg Ile His Leu Asp Val Cys
 290 295 300
 Gln Leu Arg Arg Val Ile Ala Ala His Gly Phe Ser Ser Lys Glu
 305 310 315
 Ile Ile Thr Phe Trp Gln Val Met Leu Arg Asn Thr Thr Cys His
 320 325 330
 Tyr

<210> 210
 <211> 745
 <212> DNA
 <213> Homo sapiens

P2730P1sequencelisting.txt

```
<400> 210
cctctgtcca ctgctttcgt gaagacaaga tgaagttcac aattgtcttt 50
gctggacttc ttggagtctt tctagctcct gccctagcta actataatat 100
caacgtcaat gatgacaaca acaatgctgg aagtgggcag cagtcagtga 150
gtgtcaacaa tgaacacaat gtggccaatg ttgacaataa caacggatgg 200
gactcctgga attccatctg ggattatgga aatggctttg ctgcaaccag 250
actctttcaa aagaagacat gcattgtgca caaaatgaac aaggaagtca 300
tgccctccat tcaatccctt gatgcactgg tcaaggaaaa gaagcttcag 350
ggtaagggac caggaggacc acctcccaag ggctgatgt actcagtcaa 400
cccaaacaaa gtcgatgacc tgagcaagtt cggaaaaaac attgcaaaca 450
tgtgtcgtgg gattccaaca tacatggctg aggagatgca agaggcaagc 500
ctgttttttt actcaggaac gtgctacacg accagtgtac tatggattgt 550
ggacatttcc ttctgtggag acacggtgga gaactaaaca attttttaaa 600
gccactatgg atttagtcat ctgaatatgc tgtgcagaaa aaatatgggc 650
tccagtgggt tttaccatgt cattctgaaa tttttctcta ctagttatgt 700
ttgatttctt taagtttcaa taaaatcatt tagcattgaa aaaaa 745
```

```
<210> 211
<211> 185
<212> PRT
<213> Homo sapiens
```

```
<400> 211
Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu
  1           5           10
Ala Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn
          20          25          30
Asn Asn Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu
          35          40          45
His Asn Val Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp
          50          55          60
Asn Ser Ile Trp Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu
          65          70          75
Phe Gln Lys Lys Thr Cys Ile Val His Lys Met Asn Lys Glu Val
          80          85          90
Met Pro Ser Ile Gln Ser Leu Asp Ala Leu Val Lys Glu Lys Lys
          95          100          105
Leu Gln Gly Lys Gly Pro Gly Gly Pro Pro Pro Lys Gly Leu Met
          110          115          120
Tyr Ser Val Asn Pro Asn Lys Val Asp Asp Leu Ser Lys Phe Gly
          125          130          135
Lys Asn Ile Ala Asn Met Cys Arg Gly Ile Pro Thr Tyr Met Ala
          140          145          150
```

P2730P1sequencelisting.txt

Glu Glu Met Gln Glu Ala Ser Leu Phe Phe Tyr Ser Gly Thr Cys
155 160 165

Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile Ser Phe Cys Gly
170 175 180

Asp Thr Val Glu Asn
185

<210> 212

<211> 1706

<212> DNA

<213> Homo sapiens

<400> 212

catttctgaa actaatcgtg tcagaattga ctttgaaaag cattgctttt 50
tacagaagta tattaacttt ttaggagtaa tttctagttt ggattgtaat 100
atgaaataat ttaaaagggc ttcgctcata tataggaaaa tcgcatatgg 150
tcctagtatt aaattcttat tgcttactga tttttttgag ttaagagttg 200
ttatatgcta gaatatgagg atgtgaatat aaataagaga agaaaaaaga 250
ataaagtaga ttgagtctcc aattttatgt aagcttcaga agaactgggt 300
tgtttacatg caagcttata gttgaaatat ttttcaggaa ttacatgaat 350
gacagtcttc gaaccaatgt gtttgttcga tttcaaccag agactatagc 400
atgtgcttgc atctaccttg cagctagagc acttcagatt ccgttgccaa 450
ctcgtcccca ttggtttctt ctttttggtg ctacagaaga ggaaatccag 500
gaaatctgca tagaaacact taggctttat accagaaaaa agccaaacta 550
tgaattactg gaaaaagaag tagaaaaaag aaaagtagcc ttacaagaag 600
ccaaattaaa agcaaagggg ttgaatccgg atggaactcc agccctttca 650
accctgggtg gatthttctcc agcctccaag ccatcatcac caagagaagt 700
aaaagctgaa gagaaatcac caatctccat taatgtgaag acagtcaaaa 750
aagaacctga ggatagacaa caggcttcca aaagccctta caatggtgta 800
agaaaagaca gcaagagaag tagaaatagc agaagtgcaa gtcgatcgag 850
gtcaagaaca cgatcacgtt ctagatcaca tactccaaga agacactata 900
ataataggcg gagtcgatct ggaacatata gctcgagatc aagaagcagg 950
tcccgcagtc acagtgaaag ccttcgaaga catcataatc atggttctcc 1000
tcaccttaag gccaaacata ccagagatga tttaaaaagt tcaaacagac 1050
atggtcataa aaggaaaaaa tctcgttctc gatctcagag caagtctcgg 1100
gatcactcag atgcagccaa gaaacacagg catgaaaggg gacatcatag 1150
ggacaggcgt gaacgatctc gtccttttga gaggtcccat aaaagcaagc 1200
accatggtgg cagtcgctca ggacatggca ggcacaggcg ctgactttct 1250
cttcctttga gcctgcatca gttcttggtt ttgcctatct acagtgtgat 1300
gtatggactc aatcaaaaac attaaacgca aactgattag gatttgattt 1350

P2730P1sequencelisting.txt

cttgaaaccc tctaggtctc tagaactctg aggacagttt cttttgaaaa 1400
gaactatggt aatttttttg cacattaaaa tgccctagca gtatctaatt 1450
aaaaaccatg gtcagggttca attgtacttt attatagttg tgtattgttt 1500
attgctataa gaactggagc gtgaattctg taaaaatgta tcttattttt 1550
atacagataa aattgcagac actgttctat ttaagtgggt atttgtttta 1600
atgatggtga atactttctt aactctggtt tgtctgcatg tgtaaagatt 1650
tttacaagga aataaaatac aaatcttggt ttttctaaaa aaaaaaaaaa 1700
aaaagt 1706

<210> 213

<211> 299

<212> PRT

<213> Homo sapiens

<400> 213

Met	Asn	Asp	Ser	Leu	Arg	Thr	Asn	Val	Phe	Val	Arg	Phe	Gln	Pro	1	5	10	15
Glu	Thr	Ile	Ala	Cys	Ala	Cys	Ile	Tyr	Leu	Ala	Ala	Arg	Ala	Leu	20	25	30	
Gln	Ile	Pro	Leu	Pro	Thr	Arg	Pro	His	Trp	Phe	Leu	Leu	Phe	Gly	35	40	45	
Thr	Thr	Glu	Glu	Glu	Ile	Gln	Glu	Ile	Cys	Ile	Glu	Thr	Leu	Arg	50	55	60	
Leu	Tyr	Thr	Arg	Lys	Lys	Pro	Asn	Tyr	Glu	Leu	Leu	Glu	Lys	Glu	65	70	75	
Val	Glu	Lys	Arg	Lys	Val	Ala	Leu	Gln	Glu	Ala	Lys	Leu	Lys	Ala	80	85	90	
Lys	Gly	Leu	Asn	Pro	Asp	Gly	Thr	Pro	Ala	Leu	Ser	Thr	Leu	Gly	95	100	105	
Gly	Phe	Ser	Pro	Ala	Ser	Lys	Pro	Ser	Ser	Pro	Arg	Glu	Val	Lys	110	115	120	
Ala	Glu	Glu	Lys	Ser	Pro	Ile	Ser	Ile	Asn	Val	Lys	Thr	Val	Lys	125	130	135	
Lys	Glu	Pro	Glu	Asp	Arg	Gln	Gln	Ala	Ser	Lys	Ser	Pro	Tyr	Asn	140	145	150	
Gly	Val	Arg	Lys	Asp	Ser	Lys	Arg	Ser	Arg	Asn	Ser	Arg	Ser	Ala	155	160	165	
Ser	Arg	Ser	Arg	Ser	Arg	Thr	Arg	Ser	Arg	Ser	Arg	Ser	His	Thr	170	175	180	
Pro	Arg	Arg	His	Tyr	Asn	Asn	Arg	Arg	Ser	Arg	Ser	Gly	Thr	Tyr	185	190	195	
Ser	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	His	Ser	Glu	Ser	Pro	200	205	210	
Arg	Arg	His	His	Asn	His	Gly	Ser	Pro	His	Leu	Lys	Ala	Lys	His	215	220	225	

P2730P1sequencelisting.txt

Thr Arg Asp Asp Leu Lys Ser Ser Asn Arg His Gly His Lys Arg
 230 235 240
 Lys Lys Ser Arg Ser Arg Ser Gln Ser Lys Ser Arg Asp His Ser
 245 250 255
 Asp Ala Ala Lys Lys His Arg His Glu Arg Gly His His Arg Asp
 260 265 270
 Arg Arg Glu Arg Ser Arg Ser Phe Glu Arg Ser His Lys Ser Lys
 275 280 285
 His His Gly Gly Ser Arg Ser Gly His Gly Arg His Arg Arg
 290 295

<210> 214
 <211> 730
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 72-73, 85, 91, 127, 226, 268, 454, 484, 513, 566, 663
 <223> unknown base

<400> 214
 tggggataaa ggaaaaatgg tcaggtatta atggcctaaa gattattgga 50
 aggggtttat ctttttttga anntattcgg gtcanaattg nctttgaaaa 100
 gcattgcttt ttacagaaat atattancct tttagagtaa tttctagttt 150
 ggattgtaat atgaaattat ttaaaagggc ttcgctcata tataggaaaa 200
 tcgcatatgg tcctagtatt aaattnttat tgcttactga tttttttgag 250
 ttaagagttg ttatatgnta gaatatgagg atgtgaatat aaataagaga 300
 agaaaaaaga ataaagtaga ttgagtctcc aattttatgt aagcttcaga 350
 agaactgggt tgttttacatg caagcttata gttgaaatat ttttcaggaa 400
 ttacatgaat gacagtcttc gaaccaatgt gtttggtcga tttcaaccag 450
 agantatagc atgtgcttgc atctaccttg cagntagagc acttcagatt 500
 ccgttgccaa ctngtcccca ttggtttctt ctttttggtg ctacagaaga 550
 ggaaatccag gaaatntgca tagaaacact taggctttat accagaaaaa 600
 agccaaacta tgaattactg gaaaaagaag tagaaaaaag aaaagtagcc 650
 ttacaagaag ccnaattaaa agcaaaggga ttgaatccgg atggaactcc 700
 agccctttca accctgggtg gattttctcc 730

<210> 215
 <211> 1807
 <212> DNA
 <213> Homo sapiens

<400> 215
 ggcacgaggc ctggtgccaa gcttggcacg aggggtgacc gcgttctcgc 50
 acgcgtcatg gcggtcctcg gactacagct ggtggtgacc ctgctcactg 100
 ccaccctcat gcacaggctg gcgccacact gctccttcgc gcgctggctg 150

P2730P1sequencelisting.txt

ctctgtaacg gcagtttggt ccgatacaag caccgcgtctg aggaggagct 200
tcgggcccctg gcggggaagc cgaggcccag aggcaggaaa gagcgggtggg 250
ccaatggcct tagtgaggag aagccactgt ctgtgccccg agatgccccg 300
ttccagctgg agacctgccc cctcacgacc gtggatgccc tggctctgcg 350
cttcttctctg gagtaccagt ggtttggtga ctttgctgtg tactcgggcg 400
gcgtgtacct cttcacagag gcctactact acatgctggg accagccaag 450
gagactaaca ttgctgtggt ctgggtgcctg ctcacgggtga ctttctccat 500
caagatgttc ctgacagtga cacggctgta cttcagcgcc gaggaggggg 550
gtgagcgctc tgtctgcctc acctttgcct tcctcttctt gctgctggcc 600
atgctgggtgc aagtgggtgc ggaggagacc ctcgagctgg gcctggagcc 650
tggctctggcc agcatgaccc agaacttaga gccacttctg aagaagcagg 700
gctgggactg ggcgtttctt gtggccaagc tggctatccg cgtgggactg 750
gcagtgggtg gctctgtgct gggtgccttc ctcaccttc caggcctgcg 800
gctggcccag acccaccggg acgcactgac catgtcggag gacagacca 850
tgctgcagtt cctcctgcac accagcttcc tgtctcccct gttcatcctg 900
tggctctgga caaagcccat tgcacgggac ttctgcacc agccgccgtt 950
tggggagacg cgtttctccc tgctgtccga ttctgccttc gactctgggc 1000
gcctctggtt gctggtggtg ctgtgcctgc tgcggctggc ggtgacccgg 1050
ccccacctgc aggctacct gtgcctggcc aaggcccggg tggagcagct 1100
gcgaagggag gctggccgca tcgaagcccg tgaaatccag cagaggggtg 1150
tccgagtcta ctgctatgtg accgtggtga gcttgacgta cctgacgccg 1200
ctcatcctca cctcaactg cacacttctg ctcaagacgc tgggaggcta 1250
ttcctggggc ctgggcccag ctctctact atccccgac ccctcctcag 1300
ccagcgctgc ccccatcggc tctggggagg acgaagtcca gcagactgca 1350
gcgcggattg ccggggccct gggtggcctg cttactcccc tcttctccg 1400
tggcgtcctg gcctacctca tctgggtggac ggctgcctgc cagctgctcg 1450
ccagcctttt cggcctctac ttccaccagc acttggcagg ctctagctg 1500
cctgcagacc ctctggggc cctgaggtct gttcctgggg cagcgggaca 1550
ctagcctgcc cctctgttt gcgccccgt gtccccagct gcaaggtggg 1600
gccggactcc ccggcgttcc cttcaccaca gtgcctgacc cgcgcccccc 1650
cttgacgcc gagtttctgc ctcagaactg tctctcctgg gccagcagc 1700
atgaggggtc cgaggccatt gtctccgaag cgtatgtgcc aggtttgagt 1750
ggcgaggggtg atgctggctg ctcttctgaa caataaagg agcatgccga 1800
tttttaa 1807

P2730P1sequencelisting.txt

<210> 216
 <211> 479
 <212> PRT
 <213> Homo sapiens

<400> 216
 Met Ala Val Leu Gly Val Gln Leu Val Val Thr Leu Leu Thr Ala
 1 5 10 15
 Thr Leu Met His Arg Leu Ala Pro His Cys Ser Phe Ala Arg Trp
 20 25 30
 Leu Leu Cys Asn Gly Ser Leu Phe Arg Tyr Lys His Pro Ser Glu
 35 40 45
 Glu Glu Leu Arg Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg
 50 55 60
 Lys Glu Arg Trp Ala Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser
 65 70 75
 Val Pro Arg Asp Ala Pro Phe Gln Leu Glu Thr Cys Pro Leu Thr
 80 85 90
 Thr Val Asp Ala Leu Val Leu Arg Phe Phe Leu Glu Tyr Gln Trp
 95 100 105
 Phe Val Asp Phe Ala Val Tyr Ser Gly Gly Val Tyr Leu Phe Thr
 110 115 120
 Glu Ala Tyr Tyr Tyr Met Leu Gly Pro Ala Lys Glu Thr Asn Ile
 125 130 135
 Ala Val Phe Trp Cys Leu Leu Thr Val Thr Phe Ser Ile Lys Met
 140 145 150
 Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser Ala Glu Glu Gly Gly
 155 160 165
 Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu Phe Leu Leu Leu
 170 175 180
 Ala Met Leu Val Gln Val Val Arg Glu Glu Thr Leu Glu Leu Gly
 185 190 195
 Leu Glu Pro Gly Leu Ala Ser Met Thr Gln Asn Leu Glu Pro Leu
 200 205 210
 Leu Lys Lys Gln Gly Trp Asp Trp Ala Leu Pro Val Ala Lys Leu
 215 220 225
 Ala Ile Arg Val Gly Leu Ala Val Val Gly Ser Val Leu Gly Ala
 230 235 240
 Phe Leu Thr Phe Pro Gly Leu Arg Leu Ala Gln Thr His Arg Asp
 245 250 255
 Ala Leu Thr Met Ser Glu Asp Arg Pro Met Leu Gln Phe Leu Leu
 260 265 270
 His Thr Ser Phe Leu Ser Pro Leu Phe Ile Leu Trp Leu Trp Thr
 275 280 285
 Lys Pro Ile Ala Arg Asp Phe Leu His Gln Pro Pro Phe Gly Glu
 290 295 300
 Thr Arg Phe Ser Leu Leu Ser Asp Ser Ala Phe Asp Ser Gly Arg
 305 310 315

P2730P1sequencelisting.txt

Leu Trp Leu Leu Val Val Leu Cys Leu Leu Arg Leu Ala Val Thr
 320 325 330
 Arg Pro His Leu Gln Ala Tyr Leu Cys Leu Ala Lys Ala Arg Val
 335 340 345
 Glu Gln Leu Arg Arg Glu Ala Gly Arg Ile Glu Ala Arg Glu Ile
 350 355 360
 Gln Gln Arg Val Val Arg Val Tyr Cys Tyr Val Thr Val Val Ser
 365 370 375
 Leu Gln Tyr Leu Thr Pro Leu Ile Leu Thr Leu Asn Cys Thr Leu
 380 385 390
 Leu Leu Lys Thr Leu Gly Gly Tyr Ser Trp Gly Leu Gly Pro Ala
 395 400 405
 Pro Leu Leu Ser Pro Asp Pro Ser Ser Ala Ser Ala Ala Pro Ile
 410 415 420
 Gly Ser Gly Glu Asp Glu Val Gln Gln Thr Ala Ala Arg Ile Ala
 425 430 435
 Gly Ala Leu Gly Gly Leu Leu Thr Pro Leu Phe Leu Arg Gly Val
 440 445 450
 Leu Ala Tyr Leu Ile Trp Trp Thr Ala Ala Cys Gln Leu Leu Ala
 455 460 465
 Ser Leu Phe Gly Leu Tyr Phe His Gln His Leu Ala Gly Ser
 470 475

<210> 217
 <211> 574
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 5, 146
 <223> unknown base

<400> 217
 cgcttgcacg cgtcaatggc ggtcctcgga gtacagctgg tggtagaccct 50
 gctcactgcc accctcatgc acaggctggc gccacactgc tccttcgcgc 100
 gctggctgct ctgtaacggc agtttggtcc gatacaagca cccgtnttga 150
 ggaggagctt cggggccctgg cggggaagcc gaggcccaga ggcaggaaag 200
 agcgggtgggc caatggcctt agtgaggaga agccactgtc tgtgccccga 250
 gatgccccgt tccagctgga gacctgcccc ctcacgaccg tggatgccct 300
 ggtcctgcgc ttcttcctgg agtaccagtg gtttggtggac tttgctgtgt 350
 actcggggcgg cgtgtacctc ttcacagagg cctactacta catgctggga 400
 ccagccaagg agactaacat tgctgtgttc tggtagcctgc tcacagtgc 450
 cttctccatc aagatgttcc tgacagtgc acggctgtac ttcagcgccg 500
 aggagggggg tgagcgctct gtctgcctca cctttgcctt cctcttcctg 550
 ctgctggcca tgctgggtgca agcg 574

P2730P1sequencelisting.txt

<210> 218
 <211> 2571
 <212> DNA
 <213> Homo sapiens

<400> 218
 ggttcctaca tcctctcatc tgagaatcag agagcataat cttcttacgg 50
 gcccgtgatt tattaacgtg gcttaatctg aaggttctca gtcaaattct 100
 ttgtgatcta ctgattgtgg gggcatggca aggtttgctt aaaggagctt 150
 ggctggtttg ggcccttgta gctgacagaa ggtggccagg gagaatgcag 200
 cacactgctc ggagaatgaa ggcgcttctg ttgctggtct tgccttggt 250
 cagtcctgct aactacattg acaatgtggg caacctgcac ttctgtatt 300
 cagaactctg taaagggtgcc tcccactacg gcctgaccaa agataggaag 350
 aggcgctcac aagatggctg tccagacggc tgtgagagcc tcacagccac 400
 ggctccctcc ccagagggtt ctgcagctgc caccatctcc ttaatgacag 450
 acgagcctgg cctagacaac cctgcctacg tgcctcggc agaggacggg 500
 cagccagcaa tcagcccagt ggactctggc cggagcaacc gaactagggc 550
 acggcccttt gagagatcca ctattagaag cagatcattt aaaaaataa 600
 atcgagcttt gagtgttctt cgaaggacaa agagcgggag tgcagttgcc 650
 aaccatgccg accagggcag ggaaaattct gaaaacacca ctgcccctga 700
 agtctttcca aggttgtagc acctgattcc agatggtgaa attaccagca 750
 tcaagatcaa tcgagtagat cccagtgaag gcctctctat taggctggtg 800
 ggaggtagcg aaacccact ggtccatc attatccaac acatttatcg 850
 tgatgggggtg atcgccagag acggccggt actgccagga gacatcattc 900
 taaagggtcaa cgggatggac atcagcaatg tccctcaca ctacgctgtg 950
 cgtctcctgc ggcagccctg ccagggtgctg tggctgactg tgatgcgtga 1000
 acagaagttc cgcagcagga acaatggaca ggccccggat gcctacagac 1050
 cccgagatga cagctttcat gtgattctca acaaaagtag ccccgaggag 1100
 cagcttgga taaaactggt gcgcaagggt gatgagcctg gggttttcat 1150
 cttcaatgtg ctggatggcg gtgtggcata tcgacatggt cagcttgagg 1200
 agaatgaccg tgtgttagcc atcaatggac atgatcttcg atatggcagc 1250
 ccagaaagtg cggctcatct gattcaggcc agtgaaagac gtgttcacct 1300
 cgtcgtgtcc cgccagggtc ggcagcggag ccctgacatc tttcaggaag 1350
 ccggctggaa cagcaatggc agctggtccc cagggccagg ggagaggagc 1400
 aacactccca agccccctca tcctacaatt acttgatcatg agaagggtgt 1450
 aaatatccaa aaagaccccc gtgaatctct cggcatgacc gtcgcagggg 1500
 gagcatcaca tagagaatgg gatttgccta tctatgtcat cagtgttgag 1550

P2730P1sequencelisting.txt

```

cccgaggag tcataagcag agatggaaga ataaaaacag gtgacatttt 1600
gttgaatgtg gatggggtcg aactgacaga ggtcagccgg agtgaggcag 1650
tggcattatt gaaaagaaca tcattcctcg tagtactcaa agcttttgaa 1700
gtcaaagagt atgagcccca ggaagactgc agcagcccag cagccctgga 1750
ctccaaccac aacatggccc caccagtga ctggtcccca tcctgggtca 1800
tgtggctgga attaccacgg tgcttgata actgtaaaga tattgtatta 1850
cgaagaaaca cagctggaag tctgggcttc tgcattgtag gaggttatga 1900
agaatacaat ggaaacaaac cttttttcat caaatccatt gttgaaggaa 1950
caccagcata caatgatgga agaattagat gtggtgatat tcttcttgct 2000
gtcaatggta gaagtacatc aggaatgata catgcttgct tggcaagact 2050
gctgaaagaa cttaaaggaa gaattactct aactattggt tcttggcctg 2100
gcactttttt atagaatcaa tgatgggtca gagggaaaaca gaaaaatcac 2150
aaataggcta agaagttgaa acactatatt tatcttgta gtttttatat 2200
ttaaagaaag aatacattgt aaaaatgtca ggaaaagtat gatcatctaa 2250
tgaaagccag ttacacctca gaaaatatga ttccaaaaaa attaaaacta 2300
ctagtttttt ttcagtgtgg aggatttctc attactctac aacattgttt 2350
atattttttt tattcaataa aaagccctaa aacaactaaa atgattgatt 2400
tgtatacccc actgaattca agctgattta aatttaaaat ttggtatatg 2450
ctgaagtctg ccaagggtag attatggcca tttttaattt acagctaaaa 2500
tattttttta aatgcattgc tgagaaacgt tgctttcatc aaacaagaat 2550
aaatattttt cagaagttaa a 2571

```

<210> 219

<211> 632

<212> PRT

<213> Homo sapiens

<400> 219

```

Met Lys Ala Leu Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala
 1          5          10          15
Asn Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu
          20          25          30
Leu Cys Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys
          35          40          45
Arg Arg Ser Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr
          50          55          60
Ala Thr Ala Pro Ser Pro Glu Val Ser Ala Ala Ala Thr Ile Ser
          65          70          75
Leu Met Thr Asp Glu Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser
          80          85          90
Ser Ala Glu Asp Gly Gln Pro Ala Ile Ser Pro Val Asp Ser Gly

```

P2730P1sequencelisting.txt

95	100	105
Arg Ser Asn Arg Thr 110	Arg Ala Arg Pro Phe 115	Glu Arg Ser Thr Ile 120
Arg Ser Arg Ser Phe 125	Lys Lys Ile Asn Arg 130	Ala Leu Ser Val Leu 135
Arg Arg Thr Lys Ser 140	Gly Ser Ala Val Ala 145	Asn His Ala Asp Gln 150
Gly Arg Glu Asn Ser 155	Glu Asn Thr Thr Ala 160	Pro Glu Val Phe Pro 165
Arg Leu Tyr His Leu 170	Ile Pro Asp Gly Glu 175	Ile Thr Ser Ile Lys 180
Ile Asn Arg Val Asp 185	Pro Ser Glu Ser Leu 190	Ser Ile Arg Leu Val 195
Gly Gly Ser Glu Thr 200	Pro Leu Val His Ile 205	Ile Ile Gln His Ile 210
Tyr Arg Asp Gly Val 215	Ile Ala Arg Asp Gly 220	Arg Leu Leu Pro Gly 225
Asp Ile Ile Leu Lys 230	Val Asn Gly Met Asp 235	Ile Ser Asn Val Pro 240
His Asn Tyr Ala Val 245	Arg Leu Leu Arg Gln 250	Pro Cys Gln Val Leu 255
Trp Leu Thr Val Met 260	Arg Glu Gln Lys Phe 265	Arg Ser Arg Asn Asn 270
Gly Gln Ala Pro Asp 275	Ala Tyr Arg Pro Arg 280	Asp Asp Ser Phe His 285
Val Ile Leu Asn Lys 290	Ser Ser Pro Glu Glu 295	Gln Leu Gly Ile Lys 300
Leu Val Arg Lys Val 305	Asp Glu Pro Gly Val 310	Phe Ile Phe Asn Val 315
Leu Asp Gly Gly Val 320	Ala Tyr Arg His Gly 325	Gln Leu Glu Glu Asn 330
Asp Arg Val Leu Ala 335	Ile Asn Gly His Asp 340	Leu Arg Tyr Gly Ser 345
Pro Glu Ser Ala Ala 350	His Leu Ile Gln Ala 355	Ser Glu Arg Arg Val 360
His Leu Val Val Ser 365	Arg Gln Val Arg Gln 370	Arg Ser Pro Asp Ile 375
Phe Gln Glu Ala Gly 380	Trp Asn Ser Asn Gly 385	Ser Trp Ser Pro Gly 390
Pro Gly Glu Arg Ser 395	Asn Thr Pro Lys Pro 400	Leu His Pro Thr Ile 405
Thr Cys His Glu Lys 410	Val Val Asn Ile Gln 415	Lys Asp Pro Gly Glu 420
Ser Leu Gly Met Thr 425	Val Ala Gly Gly Ala 430	Ser His Arg Glu Trp 435

P2730P1sequencelisting.txt

Asp	Leu	Pro	Ile	Tyr	Val	Ile	Ser	Val	Glu	Pro	Gly	Gly	Val	Ile
				440					445					450
Ser	Arg	Asp	Gly	Arg	Ile	Lys	Thr	Gly	Asp	Ile	Leu	Leu	Asn	Val
				455					460					465
Asp	Gly	Val	Glu	Leu	Thr	Glu	Val	Ser	Arg	Ser	Glu	Ala	Val	Ala
				470					475					480
Leu	Leu	Lys	Arg	Thr	Ser	Ser	Ser	Ile	Val	Leu	Lys	Ala	Leu	Glu
				485					490					495
Val	Lys	Glu	Tyr	Glu	Pro	Gln	Glu	Asp	Cys	Ser	Ser	Pro	Ala	Ala
				500					505					510
Leu	Asp	Ser	Asn	His	Asn	Met	Ala	Pro	Pro	Ser	Asp	Trp	Ser	Pro
				515					520					525
Ser	Trp	Val	Met	Trp	Leu	Glu	Leu	Pro	Arg	Cys	Leu	Tyr	Asn	Cys
				530					535					540
Lys	Asp	Ile	Val	Leu	Arg	Arg	Asn	Thr	Ala	Gly	Ser	Leu	Gly	Phe
				545					550					555
Cys	Ile	Val	Gly	Gly	Tyr	Glu	Glu	Tyr	Asn	Gly	Asn	Lys	Pro	Phe
				560					565					570
Phe	Ile	Lys	Ser	Ile	Val	Glu	Gly	Thr	Pro	Ala	Tyr	Asn	Asp	Gly
				575					580					585
Arg	Ile	Arg	Cys	Gly	Asp	Ile	Leu	Leu	Ala	Val	Asn	Gly	Arg	Ser
				590					595					600
Thr	Ser	Gly	Met	Ile	His	Ala	Cys	Leu	Ala	Arg	Leu	Leu	Lys	Glu
				605					610					615
Leu	Lys	Gly	Arg	Ile	Thr	Leu	Thr	Ile	Val	Ser	Trp	Pro	Gly	Thr
				620					625					630

Phe Leu

<210> 220
 <211> 773
 <212> DNA
 <213> Homo sapiens

<400> 220
 ccaaagtgat catttgaaaa agagatatcc acatcttcaa gcccatataa 50
 aggatagaag ctgcacaggg cagctttact tactccagca ctttcctctc 100
 ccaggcaaat ggtgctgacc atctttggga tacaatctca tggatacgag 150
 gtttttaaca tcatcagccc aagcaacaat ggtggcaatg ttcaggagac 200
 agtgacaatt gataatgaaa aaaataccgc catcgттаac atccatgcag 250
 gatcatgctc ttctaccaca atttttgact ataaacatgg ctacattgca 300
 tccagggtgc tctcccgaag agcctgcttt atcctgaaga tggaccatca 350
 gaacatccct cctctgaaca atctccaatg gtacatctat gagaaacagg 400
 ctctggacaa catgtttctcc aacaaataca cctgggtcaa gtacaaccct 450
 ctggagtctc tgatcaaaga cgtggattgg ttctgcttg ggtcacccat 500

P2730P1sequencelisting.txt

tgagaaactc tgcaaacata tccctttgta taaggggggaa gtggttgaaa 550
 acacacataa tgtcggtgct ggaggctgtg caaaggctgg gctcctgggc 600
 atcttgaggaa tttcaatctg tgcagacatt catgtttagg atgattagcc 650
 ctcttgtttt atcttttcaa agaaatacat ccttggttta cactcaaaag 700
 tcaaattaaa ttctttccca atgccccaac taattttgag attcagtcag 750
 aaaatataaa tgctgtattt ata 773

<210> 221
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 221
 Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly
 1 5 10 15
 Ile Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser
 20 25 30
 Asn Asn Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu
 35 40 45
 Lys Asn Thr Ala Ile Val Asn Ile His Ala Gly Ser Cys Ser Ser
 50 55 60
 Thr Thr Ile Phe Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val
 65 70 75
 Leu Ser Arg Arg Ala Cys Phe Ile Leu Lys Met Asp His Gln Asn
 80 85 90
 Ile Pro Pro Leu Asn Asn Leu Gln Trp Tyr Ile Tyr Glu Lys Gln
 95 100 105
 Ala Leu Asp Asn Met Phe Ser Asn Lys Tyr Thr Trp Val Lys Tyr
 110 115 120
 Asn Pro Leu Glu Ser Leu Ile Lys Asp Val Asp Trp Phe Leu Leu
 125 130 135
 Gly Ser Pro Ile Glu Lys Leu Cys Lys His Ile Pro Leu Tyr Lys
 140 145 150
 Gly Glu Val Val Glu Asn Thr His Asn Val Gly Ala Gly Gly Cys
 155 160 165
 Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile Ser Ile Cys Ala
 170 175 180
 Asp Ile His Val

<210> 222
 <211> 992
 <212> DNA
 <213> Homo sapiens

<400> 222
 ggcacgagcc aggaactagg aggttctcac tgcccagca gaggccctac 50
 acccaccgag gcatggggct ccctgggctg ttctgcttgg ccgtgctggc 100
 tgccagcagc ttctccaagg cacgggagga agaaattacc cctgtggtct 150

P2730P1sequencelisting.txt

ccattgccta caaagtcctg gaagttttcc ccaaaggccg ctgggtgctc 200
 ataacctgct gtgcaccca gccaccaccg cccatcacct attccctctg 250
 tggaaccaag aacatcaagg tggccaagaa ggtggtgaag acccacgagc 300
 cggcctcctt caacctcaac gtcacactca agtccagtcc agacctgctc 350
 acctacttct gccgggcgtc ctccacctca ggtgcccattg tggacagtgc 400
 caggctacag atgactggg agctgtggtc caagccagtg tctgagctgc 450
 gggccaactt cactctgcag gacagagggg caggccccag ggtggagatg 500
 atctgccagg cgtcctcggg cagcccacct atcaccaaca gcctgatcgg 550
 gaaggatggg cagggtccacc tgcagcagag accatgccac aggcagcctg 600
 ccaacttctc cttcctgccg agccagacat cggactgggtt ctggtgccag 650
 gctgcaaaca acgccaatgt ccagcacagc gccctcacag tggtgcccc 700
 aggtggtgac cagaagatgg aggactggca ggggtcccctg gagagcccca 750
 tccttgccctt gccgctctac aggagcacc gccgtctgag tgaagaggag 800
 tttggggggt tcaggatagg gaatggggag gtcagaggac gcaaagcagc 850
 agccatgtag aatgaaccgt ccagagagcc aagcacggca gaggactgca 900
 ggccatcagc gtgactggtt cgtatttggg gttcatgcaa aatgagtgtg 950
 ttttagctgc tcttgccaca aaaaaaaaaa aaaaaaaaaa aa 992

<210> 223

<211> 265

<212> PRT

<213> Homo sapiens

<400> 223

Met	Gly	Leu	Pro	Gly	Leu	Phe	Cys	Leu	Ala	Val	Leu	Ala	Ala	Ser
1				5					10					15
Ser	Phe	Ser	Lys	Ala	Arg	Glu	Glu	Glu	Ile	Thr	Pro	Val	Val	Ser
				20					25					30
Ile	Ala	Tyr	Lys	Val	Leu	Glu	Val	Phe	Pro	Lys	Gly	Arg	Trp	Val
				35					40					45
Leu	Ile	Thr	Cys	Cys	Ala	Pro	Gln	Pro	Pro	Pro	Pro	Ile	Thr	Tyr
				50					55					60
Ser	Leu	Cys	Gly	Thr	Lys	Asn	Ile	Lys	Val	Ala	Lys	Lys	Val	Val
				65					70					75
Lys	Thr	His	Glu	Pro	Ala	Ser	Phe	Asn	Leu	Asn	Val	Thr	Leu	Lys
				80					85					90
Ser	Ser	Pro	Asp	Leu	Leu	Thr	Tyr	Phe	Cys	Arg	Ala	Ser	Ser	Thr
				95					100					105
Ser	Gly	Ala	His	Val	Asp	Ser	Ala	Arg	Leu	Gln	Met	His	Trp	Glu
				110					115					120
Leu	Trp	Ser	Lys	Pro	Val	Ser	Glu	Leu	Arg	Ala	Asn	Phe	Thr	Leu
				125					130					135

P2730P1sequencelisting.txt

Gln	Asp	Arg	Gly	Ala	Gly	Pro	Arg	Val	Glu	Met	Ile	Cys	Gln	Ala
				140					145					150
Ser	Ser	Gly	Ser	Pro	Pro	Ile	Thr	Asn	Ser	Leu	Ile	Gly	Lys	Asp
				155					160					165
Gly	Gln	Val	His	Leu	Gln	Gln	Arg	Pro	Cys	His	Arg	Gln	Pro	Ala
				170					175					180
Asn	Phe	Ser	Phe	Leu	Pro	Ser	Gln	Thr	Ser	Asp	Trp	Phe	Trp	Cys
				185					190					195
Gln	Ala	Ala	Asn	Asn	Ala	Asn	Val	Gln	His	Ser	Ala	Leu	Thr	Val
				200					205					210
Val	Pro	Pro	Gly	Gly	Asp	Gln	Lys	Met	Glu	Asp	Trp	Gln	Gly	Pro
				215					220					225
Leu	Glu	Ser	Pro	Ile	Leu	Ala	Leu	Pro	Leu	Tyr	Arg	Ser	Thr	Arg
				230					235					240
Arg	Leu	Ser	Glu	Glu	Glu	Phe	Gly	Gly	Phe	Arg	Ile	Gly	Asn	Gly
				245					250					255
Glu	Val	Arg	Gly	Arg	Lys	Ala	Ala	Ala	Met					
				260					265					

<210> 224
 <211> 1297
 <212> DNA
 <213> Homo sapiens

<400> 224
 ggtccttaat ggcagcagcc gccgctacca agatccttct gtgcctcccg 50
 cttctgctcc tgctgtccgg ctggtcccgg gctgggagag ccgaccctca 100
 ctctctttgc tatgacatca ccgtcatccc taagttcaga cctggaccac 150
 ggtggtgtgc ggttcaaggc caggtggatg aaaagacttt tcttcactat 200
 gactgtggca acaagacagt cacacctgtc agtcccctgg ggaagaaact 250
 aaatgtcaca acggcctgga aagcacagaa cccagtactg agagaggtgg 300
 tggacatact tacagagcaa ctgctgtgaca ttcagctgga gaattacaca 350
 cccaaggaac ccctcaccct gcaggcaagg atgtcttgtg agcagaaagc 400
 tgaaggacac agcagtggat cttggcagtt cagtttcgat gggcagatct 450
 tcctcctctt tgactcagag aagagaatgt ggacaacggt tcatcctgga 500
 gccagaaaga tgaaagaaaa gtgggagaat gacaaggttg tggccatgtc 550
 cttccattac ttctcaatgg gagactgtat aggatggctt gaggacttct 600
 tgatgggcat ggacagcacc ctggagccaa gtgcaggagc accactcgcc 650
 atgtcctcag gcacaacca actcagggcc acagccacca ccctcatcct 700
 ttgctgcctc ctcacatcc tcccctgctt catcctcctt ggcacatgag 750
 gagagtcctt tagagtgaca ggttaaagct gataccaaaa ggctcctgtg 800
 agcacggtct tgatcaaact cgcccttctg tctggccagc tgcccacgac 850
 ctacggtgta tgtccagtgg cctccagcag atcatgatga catcatggac 900

P2730P1sequencelisting.txt

ccaatagctc attcactgcc ttgattcctt ttgccaacaa ttttaccagc 950
 agttatacct aacatattat gcaattttct cttggtgcta cctgatggaa 1000
 ttcttgcaact taaagttctg gctgactaaa caagatatat cattttcttt 1050
 cttctctttt tgtttggaat atcaagtact tctttgaatg atgatctctt 1100
 tcttgcaaat gatattgtca gtaaaataat cacgttagac ttcagacctc 1150
 tggggattct ttccgtgtcc tgaaagagaa tttttaaatt atttaataag 1200
 aaaaaattta tattaatgat tgtttccttt agtaatttat tgttctgtac 1250
 tgatatttaa ataaagagtt ctatttccca aaaaaaaaaa aaaaaaa 1297

<210> 225

<211> 246

<212> PRT

<213> Homo sapiens

<400> 225

Met	Ala	Ala	Ala	Ala	Ala	Thr	Lys	Ile	Leu	Leu	Cys	Leu	Pro	Leu	1	5	10	15
Leu	Leu	Leu	Leu	Ser	Gly	Trp	Ser	Arg	Ala	Gly	Arg	Ala	Asp	Pro	20	25	30	
His	Ser	Leu	Cys	Tyr	Asp	Ile	Thr	Val	Ile	Pro	Lys	Phe	Arg	Pro	35	40	45	
Gly	Pro	Arg	Trp	Cys	Ala	Val	Gln	Gly	Gln	Val	Asp	Glu	Lys	Thr	50	55	60	
Phe	Leu	His	Tyr	Asp	Cys	Gly	Asn	Lys	Thr	Val	Thr	Pro	Val	Ser	65	70	75	
Pro	Leu	Gly	Lys	Lys	Leu	Asn	Val	Thr	Thr	Ala	Trp	Lys	Ala	Gln	80	85	90	
Asn	Pro	Val	Leu	Arg	Glu	Val	Val	Asp	Ile	Leu	Thr	Glu	Gln	Leu	95	100	105	
Arg	Asp	Ile	Gln	Leu	Glu	Asn	Tyr	Thr	Pro	Lys	Glu	Pro	Leu	Thr	110	115	120	
Leu	Gln	Ala	Arg	Met	Ser	Cys	Glu	Gln	Lys	Ala	Glu	Gly	His	Ser	125	130	135	
Ser	Gly	Ser	Trp	Gln	Phe	Ser	Phe	Asp	Gly	Gln	Ile	Phe	Leu	Leu	140	145	150	
Phe	Asp	Ser	Glu	Lys	Arg	Met	Trp	Thr	Thr	Val	His	Pro	Gly	Ala	155	160	165	
Arg	Lys	Met	Lys	Glu	Lys	Trp	Glu	Asn	Asp	Lys	Val	Val	Ala	Met	170	175	180	
Ser	Phe	His	Tyr	Phe	Ser	Met	Gly	Asp	Cys	Ile	Gly	Trp	Leu	Glu	185	190	195	
Asp	Phe	Leu	Met	Gly	Met	Asp	Ser	Thr	Leu	Glu	Pro	Ser	Ala	Gly	200	205	210	
Ala	Pro	Leu	Ala	Met	Ser	Ser	Gly	Thr	Thr	Gln	Leu	Arg	Ala	Thr	215	220	225	

P2730P1sequencelisting.txt

Ala Thr Thr Leu Ile Leu Cys Cys Leu Leu Ile Ile Leu Pro Cys
230 235 240

Phe Ile Leu Pro Gly Ile
245

<210> 226
<211> 735
<212> DNA
<213> Homo sapiens

<400> 226
gggaaagcca tttcgaaaac ccattctatac aaactatata ttttcatttc 50
tgctgctagc tgccttgggc ctcacaattt tcattctggt ttctgacttt 100
caagttatat accgtggaat ggagttgatc ccaaccataa catcgtggag 150
ggtttttaatt ttggtggtag ccctcaccca attctggtgt ggcttttcttt 200
gcagaggatt ccaccttcaa aatcatgaac tctggctggt gatcaaaaga 250
gaatttggtat tctactctaa aagtcaatat aggacttggc aaaagaagct 300
agcagaagac tcaacctggc ctcccataaa caggacagat tattcaggtg 350
atggcaaaaa tggattctac atcaacggag gctatgaaag ccatgaacag 400
attccaaaaa gaaaactcaa attggggaggc caaccacag aacagcattt 450
ctggggccagg ctgtaatcag aattgtcgtc gtacatgctc aacagcattg 500
cttttttccc caaaattaac acattgtgga gaagtgatga tactctcccc 550
ttacctttcc tctctccatt caagcattca aagtatattt tcaatgaatt 600
aaaccttgca gcaagggacc ttagataggc ttattctgac tgtatgcttt 650
accaatgaga gaaaaaaatg catttcctgt atcatccttt tcaataaaact 700
gtattcattt tgaaaaaaa aaaaaaaaaa aaaaa 735

<210> 227
<211> 115
<212> PRT
<213> Homo sapiens

<400> 227
Met Glu Leu Ile Pro Thr Ile Thr Ser Trp Arg Val Leu Ile Leu
1 5 10 15
Val Val Ala Leu Thr Gln Phe Trp Cys Gly Phe Leu Cys Arg Gly
20 25 30
Phe His Leu Gln Asn His Glu Leu Trp Leu Leu Ile Lys Arg Glu
35 40 45
Phe Gly Phe Tyr Ser Lys Ser Gln Tyr Arg Thr Trp Gln Lys Lys
50 55 60
Leu Ala Glu Asp Ser Thr Trp Pro Pro Ile Asn Arg Thr Asp Tyr
65 70 75
Ser Gly Asp Gly Lys Asn Gly Phe Tyr Ile Asn Gly Gly Tyr Glu
80 85 90
Ser His Glu Gln Ile Pro Lys Arg Lys Leu Lys Leu Gly Gly Gln
95 100 105

P2730P1sequencelisting.txt

Pro Thr Glu Gln His Phe Trp Ala Arg Leu
110 115

<210> 228
<211> 2185
<212> DNA
<213> Homo sapiens

<400> 228
gttctccttt ccgagccaaa atcccaggcg atggtgaatt atgaacgtgc 50
cacaccatga agctcttgtg gcaggtaact gtgcaccacc acacctggaa 100
tgccatcctg ctcccgttcg tctacctcac ggcgcaagtg tggattctgt 150
gtgcagccat cgctgctgcc gcctcagccg ggccccagaa ctgcccctcc 200
gtttgctcgt gcagtaacca gttcagcaag gtggtgtgca cgcgccgggg 250
cctctccgag gtcccgcagg gtattccctc gaacaccggg tacctcaacc 300
tcatggagaa caacatccag atgatccagg ccgacacctt ccgccacctc 350
caccacctgg aggtcctgca gttgggcagg aactccatcc ggcagattga 400
gggtgggggcc ttcaacggcc tggccagcct caacaccctg gagctgttcg 450
acaactggct gacagtcatt cctagcgggg cctttgaata cctgtccaag 500
ctgcgggagc tctggcttcg caacaacccc atcgaaagca tcccctctta 550
cgccttcaac cgggtgccct ccctcatgcy cctggacttg ggggagctca 600
agaagctgga gtatatctct gagggagctt ttgaggggct gttcaacctc 650
aagtatctga acttgggcat gtgcaacatt aaagacatgc ccaatctcac 700
ccccctggtg gggctggagg agctggagat gtcagggaac cacttccctg 750
agatcaggcc tggctccttc catggcctga gtcacctcaa gaagctctgg 800
gtcatgaact cacaggctcag cctgattgag cggaatgctt ttgacgggct 850
ggcttcactt gtggaactca acttggccca caataacctc tcttctttgc 900
cccatgacct ctttaccctg ctgaggtacc tgggtggagtt gcatctacac 950
cacaaccctt ggaactgtga ttgtgacatt ctgtggctag cctggtggct 1000
tcgagagtat ataccaccca attccacctg ctgtggccgc tgtcatgctc 1050
ccatgcacat gcgaggccgc tacctcgtgg aggtggacca ggcctccttc 1100
cagtgtctcg ccccttcat catggacgca cctcgagacc tcaacatttc 1150
tgaggggtcg atggcagaac ttaagtgtcg gactccccct atgtcctccg 1200
tgaagtgggt gctgcccatt gggacagtgc tcagccacgc ctcccggcac 1250
ccaaggatct ctgtcctcaa cgacggcacc ttgaactttt cccacgtgct 1300
gctttcagac actgggggtg acacatgcat ggtgaccaat gttgcaggca 1350
actccaacgc ctgggcttac ctcaatgtga gcacggctga gcttaacacc 1400
tccaactaca gcttcttcac cacagtaaca gtggagacca cggagatctc 1450

P2730P1sequencelisting.txt

gcctgaggac acaacgcgaa agtacaagcc tggtcctacc acgtccactg 1500
 gttaccagcc ggcataatacc acctctacca cgggtgctcat tcagactacc 1550
 cgtgtgcca agcagggtggc agtaccgcg acagacacca ctgacaagat 1600
 gcagaccagc ctggatgaag tcatgaagac caccaagatc atcattggct 1650
 gctttgtggc agtgactctg ctagctgccg ccatgttgat tgtcttctat 1700
 aaacttcgta agcggcacca gcagcggagt acagtcacag ccgcccggac 1750
 tgttgagata atccagggtgg acgaagacat cccagcagca acatccgcag 1800
 cagcaacagc agctccgtcc ggtgtatcag gtgagggggc agtagtgctg 1850
 cccacaattc atgaccatat taactacaac acctacaaac cagcacatgg 1900
 ggcccactgg acagaaaaca gcctggggaa ctctctgcac cccacagtca 1950
 ccactatctc tgaaccttat ataattcaga cccataccaa ggacaaggta 2000
 caggaaactc aaatatgact cccctcccc aaaaaactta taaaatgcaa 2050
 tagaatgcac acaagacag caacttttgt acagagtggg gagagacttt 2100
 ttcttgata tgcttatata ttaagtctat gggctgggta aaaaaaacag 2150
 attatattaa aatttaaaga caaaaagtca aaaca 2185

<210> 229

<211> 653

<212> PRT

<213> Homo sapiens

<400> 229

Met	Lys	Leu	Leu	Trp	Gln	Val	Thr	Val	His	His	His	Thr	Trp	Asn
1				5					10					15
Ala	Ile	Leu	Leu	Pro	Phe	Val	Tyr	Leu	Thr	Ala	Gln	Val	Trp	Ile
				20					25					30
Leu	Cys	Ala	Ala	Ile	Ala	Ala	Ala	Ala	Ser	Ala	Gly	Pro	Gln	Asn
				35					40					45
Cys	Pro	Ser	Val	Cys	Ser	Cys	Ser	Asn	Gln	Phe	Ser	Lys	Val	Val
				50					55					60
Cys	Thr	Arg	Arg	Gly	Leu	Ser	Glu	Val	Pro	Gln	Gly	Ile	Pro	Ser
				65					70					75
Asn	Thr	Arg	Tyr	Leu	Asn	Leu	Met	Glu	Asn	Asn	Ile	Gln	Met	Ile
				80					85					90
Gln	Ala	Asp	Thr	Phe	Arg	His	Leu	His	His	Leu	Glu	Val	Leu	Gln
				95					100					105
Leu	Gly	Arg	Asn	Ser	Ile	Arg	Gln	Ile	Glu	Val	Gly	Ala	Phe	Asn
				110					115					120
Gly	Leu	Ala	Ser	Leu	Asn	Thr	Leu	Glu	Leu	Phe	Asp	Asn	Trp	Leu
				125					130					135
Thr	Val	Ile	Pro	Ser	Gly	Ala	Phe	Glu	Tyr	Leu	Ser	Lys	Leu	Arg
				140					145					150
Glu	Leu	Trp	Leu	Arg	Asn	Asn	Pro	Ile	Glu	Ser	Ile	Pro	Ser	Tyr
				155					160					165

P2730P1sequencelisting.txt

Ala Phe Asn Arg Val	Pro Ser Leu Met Arg	Leu Asp Leu Gly Glu	170	175	180
Leu Lys Lys Leu Glu	Tyr Ile Ser Glu Gly	Ala Phe Glu Gly Leu	185	190	195
Phe Asn Leu Lys Tyr	Leu Asn Leu Gly Met	Cys Asn Ile Lys Asp	200	205	210
Met Pro Asn Leu Thr	Pro Leu Val Gly Leu	Glu Glu Leu Glu Met	215	220	225
Ser Gly Asn His Phe	Pro Glu Ile Arg Pro	Gly Ser Phe His Gly	230	235	240
Leu Ser Ser Leu Lys	Lys Leu Trp Val Met	Asn Ser Gln Val Ser	245	250	255
Leu Ile Glu Arg Asn	Ala Phe Asp Gly Leu	Ala Ser Leu Val Glu	260	265	270
Leu Asn Leu Ala His	Asn Asn Leu Ser Ser	Leu Pro His Asp Leu	275	280	285
Phe Thr Pro Leu Arg	Tyr Leu Val Glu Leu	His Leu His His Asn	290	295	300
Pro Trp Asn Cys Asp	Cys Asp Ile Leu Trp	Leu Ala Trp Trp Leu	305	310	315
Arg Glu Tyr Ile Pro	Thr Asn Ser Thr Cys	Cys Gly Arg Cys His	320	325	330
Ala Pro Met His Met	Arg Gly Arg Tyr Leu	Val Glu Val Asp Gln	335	340	345
Ala Ser Phe Gln Cys	Ser Ala Pro Phe Ile	Met Asp Ala Pro Arg	350	355	360
Asp Leu Asn Ile Ser	Glu Gly Arg Met Ala	Glu Leu Lys Cys Arg	365	370	375
Thr Pro Pro Met Ser	Ser Val Lys Trp Leu	Leu Pro Asn Gly Thr	380	385	390
Val Leu Ser His Ala	Ser Arg His Pro Arg	Ile Ser Val Leu Asn	395	400	405
Asp Gly Thr Leu Asn	Phe Ser His Val Leu	Leu Ser Asp Thr Gly	410	415	420
Val Tyr Thr Cys Met	Val Thr Asn Val Ala	Gly Asn Ser Asn Ala	425	430	435
Ser Ala Tyr Leu Asn	Val Ser Thr Ala Glu	Leu Asn Thr Ser Asn	440	445	450
Tyr Ser Phe Phe Thr	Thr Val Thr Val Glu	Thr Thr Glu Ile Ser	455	460	465
Pro Glu Asp Thr Thr	Arg Lys Tyr Lys Pro	Val Pro Thr Thr Ser	470	475	480
Thr Gly Tyr Gln Pro	Ala Tyr Thr Thr Ser	Thr Thr Val Leu Ile	485	490	495
Gln Thr Thr Arg Val	Pro Lys Gln Val Ala	Val Pro Ala Thr Asp			

P2730P1sequencelisting.txt

500		505	510
Thr Thr Asp Lys	Met Gln Thr Ser Leu	Asp Glu Val Met Lys	Thr
	515	520	525
Thr Lys Ile Ile	Ile Gly Cys Phe Val	Ala Val Thr Leu Leu	Ala
	530	535	540
Ala Ala Met Leu	Ile Val Phe Tyr Lys	Leu Arg Lys Arg His	Gln
	545	550	555
Gln Arg Ser Thr	Val Thr Ala Ala Arg	Thr Val Glu Ile Ile	Gln
	560	565	570
Val Asp Glu Asp	Ile Pro Ala Ala Thr	Ser Ala Ala Ala Thr	Ala
	575	580	585
Ala Pro Ser Gly	Val Ser Gly Glu Gly	Ala Val Val Leu Pro	Thr
	590	595	600
Ile His Asp His	Ile Asn Tyr Asn Thr	Tyr Lys Pro Ala His	Gly
	605	610	615
Ala His Trp Thr	Glu Asn Ser Leu Gly	Asn Ser Leu His Pro	Thr
	620	625	630
Val Thr Thr Ile	Ser Glu Pro Tyr Ile	Ile Gln Thr His Thr	Lys
	635	640	645
Asp Lys Val Gln	Glu Thr Gln Ile		
	650		

<210> 230
 <211> 2846
 <212> DNA
 <213> Homo sapiens

<400> 230
 cgctcgggca ccagccgcgg caaggatgga gctgggttgc tggacgcagt 50
 tggggctcac ttttcttcag ctcttctca tctcgtcctt gccagagag 100
 tacacagtca ttaatgaagc ctgccctgga gcagagtgga atatcatgtg 150
 tcgggagtgc tgtgaatatg atcagattga gtgcgtctgc cccggaaaga 200
 ggggaagtcgt gggttatacc atcccttgcg gcaggaatga ggagaatgag 250
 tgtgactcct gcctgatcca cccaggttgt accatctttg aaaactgcaa 300
 gagctgccga aatggctcat ggggggggtac cttggatgac ttctatgtga 350
 aggggttcta ctgtgcagag tgccgagcag gctggtacgg aggagactgc 400
 atgcatgtg gccaggttct gcgagcccca aagggtcaga ttttgttgga 450
 aagctatccc ctaaagtctc actgtgaatg gaccattcat gctaaacctg 500
 ggtttgatcat ccaactaaga tttgtcatgt tgagtctgga gtttgactac 550
 atgtgccagt atgactatgt tgaggttcgt gatggagaca accgcgatgg 600
 ccagatcatc aagcgtgtct gtggcaacga gcggccagct cctatccaga 650
 gcataggatc ctactccac gtcctcttcc actccgatgg ctccaagaat 700
 tttgacggtt tccatgccat ttatgaggag atcacagcat gctcctcatc 750

P2730P1sequencelisting.txt

cccttgtttc catgacggca cgtgcgctcct tgacaaggct ggatcttaca 800
 agtgtgcctg cttggcaggc tatactgggc agcgctgtga aaatctcctt 850
 gaagaaagaa actgctcaga ccctgggggc ccagtcaatg ggtaccagaa 900
 aataacaggg ggccctgggc ttatcaacgg acgccatgct aaaattggca 950
 ccgtggtgtc tttcttttgt aacaactcct atgttcttag tggcaatgag 1000
 aaaagaactt gccagcagaa tggagagtgg tcagggaac agcccatctg 1050
 cataaaagcc tgccgagaac caaagatttc agacctgggtg agaaggagag 1100
 ttcttccgat gcaggttcag tcaagggaga caccattaca ccagctatac 1150
 tcagcggcct tcagcaagca gaaactgcag agtgccccta ccaagaagcc 1200
 agcccttccc ttggagatc tgcccatggg ataccaacat ctgcataccc 1250
 agctccagta tgagtgcac tcacccttct accgccgcct gggcagcagc 1300
 aggaggacat gtctgaggac tgggaagtgg agtgggcggg caccatcctg 1350
 catccctatc tgcgggaaaa ttgagaacat cactgctcca aagacccaag 1400
 ggttgcgctg gccgtggcag gcagccatct acaggaggac cagcggggtg 1450
 catgacggca gcctacacaa gggagcggtg ttcctagtct gcagcggtgc 1500
 cctggtgaat gagcgactg tgggtggtggc tgccactgt gttactgacc 1550
 tggggaaggt caccatgatc aagacagcag acctgaaagt tgttttgggg 1600
 aaattctacc gggatgatga ccgggatgag aagaccatcc agagcctaca 1650
 gatttctgct atcattctgc atcccaacta tgaccccatc ctgcttgatg 1700
 ctgacatcgc catcctgaag ctccctagaca aggcccgtat cagcaccga 1750
 gtccagccca tctgcctcgc tgccagtcgg gatctcagca cttccttcca 1800
 ggagtccac atcactgtgg ctggctggaa tgtcctggca gacgtgagga 1850
 gccctggctt caagaacgac aactgcgct ctggggtggt cagtgtggtg 1900
 gactcgctgc tgtgtgagga gcagcatgag gaccatggca tcccagttag 1950
 tgtactgat aacatgttct gtgccagctg ggaaccact gccccttctg 2000
 atatctgcac tgcagagaca ggaggcatcg cggctgtgtc cttcccggga 2050
 cgagcatctc ctgagccacg ctggcatctg atgggactgg tcagctggag 2100
 ctatgataaa acatgcagcc acaggctctc cactgccttc accaaggtgc 2150
 tgccttttaa agactggatt gaaagaaata tgaaatgaac catgctcatg 2200
 cactccttga gaagtgtttc tgtatatccg tctgtacgtg tgtcattgcg 2250
 tgaagcagtg tgggcctgaa gtgtgatttg gcctgtgaac ttggctgtgc 2300
 cagggttct gacttcaggg acaaaactca gtgaagggtg agtagacctc 2350
 cattgctggt aggtgatgc cgcgtccact actaggacag ccaattggaa 2400
 gatgccaggg cttgcaagaa gtaagtttct tcaaagaaga ccatatacaa 2450

P2730P1sequencelisting.txt

aacctctcca ctccactgac ctggtggtct tccccaactt tcagttatac 2500
 gaatgccatc agcttgacca ggggaagatct gggcttcacg aggccccctt 2550
 tgaggctctc aagttctaga gagctgcctg tgggacagcc cagggcagca 2600
 gagctgggat gtggtgcatg cctttgtgta catggccaca gtacagtctg 2650
 gtccttttcc ttcccatct cttgtacaca ttttaataaa ataagggttg 2700
 gcttctgaac tacaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2750
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2800
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 2846

<210> 231

<211> 720

<212> PRT

<213> Homo sapiens

<400> 231

Met	Glu	Leu	Gly	Cys	Trp	Thr	Gln	Leu	Gly	Leu	Thr	Phe	Leu	Gln
1				5					10					15
Leu	Leu	Leu	Ile	Ser	Ser	Leu	Pro	Arg	Glu	Tyr	Thr	Val	Ile	Asn
				20					25					30
Glu	Ala	Cys	Pro	Gly	Ala	Glu	Trp	Asn	Ile	Met	Cys	Arg	Glu	Cys
				35					40					45
Cys	Glu	Tyr	Asp	Gln	Ile	Glu	Cys	Val	Cys	Pro	Gly	Lys	Arg	Glu
				50					55					60
Val	Val	Gly	Tyr	Thr	Ile	Pro	Cys	Cys	Arg	Asn	Glu	Glu	Asn	Glu
				65					70					75
Cys	Asp	Ser	Cys	Leu	Ile	His	Pro	Gly	Cys	Thr	Ile	Phe	Glu	Asn
				80					85					90
Cys	Lys	Ser	Cys	Arg	Asn	Gly	Ser	Trp	Gly	Gly	Thr	Leu	Asp	Asp
				95					100					105
Phe	Tyr	Val	Lys	Gly	Phe	Tyr	Cys	Ala	Glu	Cys	Arg	Ala	Gly	Trp
				110					115					120
Tyr	Gly	Gly	Asp	Cys	Met	Arg	Cys	Gly	Gln	Val	Leu	Arg	Ala	Pro
				125					130					135
Lys	Gly	Gln	Ile	Leu	Leu	Glu	Ser	Tyr	Pro	Leu	Asn	Ala	His	Cys
				140					145					150
Glu	Trp	Thr	Ile	His	Ala	Lys	Pro	Gly	Phe	Val	Ile	Gln	Leu	Arg
				155					160					165
Phe	Val	Met	Leu	Ser	Leu	Glu	Phe	Asp	Tyr	Met	Cys	Gln	Tyr	Asp
				170					175					180
Tyr	Val	Glu	Val	Arg	Asp	Gly	Asp	Asn	Arg	Asp	Gly	Gln	Ile	Ile
				185					190					195
Lys	Arg	Val	Cys	Gly	Asn	Glu	Arg	Pro	Ala	Pro	Ile	Gln	Ser	Ile
				200					205					210
Gly	Ser	Ser	Leu	His	Val	Leu	Phe	His	Ser	Asp	Gly	Ser	Lys	Asn
				215					220					225
Phe	Asp	Gly	Phe	His	Ala	Ile	Tyr	Glu	Glu	Ile	Thr	Ala	Cys	Ser

P2730P1sequencelisting.txt

230		235	240
Ser Ser Pro Cys	Phe His Asp Gly Thr	Cys Val Leu Asp Lys	Ala
245		250	255
Gly Ser Tyr Lys	Cys Ala Cys Leu Ala	Gly Tyr Thr Gly Gln	Arg
260		265	270
Cys Glu Asn Leu	Leu Glu Glu Arg Asn	Cys Ser Asp Pro Gly	Gly
275		280	285
Pro Val Asn Gly	Tyr Gln Lys Ile Thr	Gly Gly Pro Gly Leu	Ile
290		295	300
Asn Gly Arg His	Ala Lys Ile Gly Thr	Val Val Ser Phe Phe	Cys
305		310	315
Asn Asn Ser Tyr	Val Leu Ser Gly Asn	Glu Lys Arg Thr Cys	Gln
320		325	330
Gln Asn Gly Glu	Trp Ser Gly Lys Gln	Pro Ile Cys Ile Lys	Ala
335		340	345
Cys Arg Glu Pro	Lys Ile Ser Asp Leu	Val Arg Arg Arg Val	Leu
350		355	360
Pro Met Gln Val	Gln Ser Arg Glu Thr	Pro Leu His Gln Leu	Tyr
365		370	375
Ser Ala Ala Phe	Ser Lys Gln Lys Leu	Gln Ser Ala Pro Thr	Lys
380		385	390
Lys Pro Ala Leu	Pro Phe Gly Asp Leu	Pro Met Gly Tyr Gln	His
395		400	405
Leu His Thr Gln	Leu Gln Tyr Glu Cys	Ile Ser Pro Phe Tyr	Arg
410		415	420
Arg Leu Gly Ser	Ser Arg Arg Thr Cys	Leu Arg Thr Gly Lys	Trp
425		430	435
Ser Gly Arg Ala	Pro Ser Cys Ile Pro	Ile Cys Gly Lys Ile	Glu
440		445	450
Asn Ile Thr Ala	Pro Lys Thr Gln Gly	Leu Arg Trp Pro Trp	Gln
455		460	465
Ala Ala Ile Tyr	Arg Arg Thr Ser Gly	Val His Asp Gly Ser	Leu
470		475	480
His Lys Gly Ala	Trp Phe Leu Val Cys	Ser Gly Ala Leu Val	Asn
485		490	495
Glu Arg Thr Val	Val Val Ala Ala His	Cys Val Thr Asp Leu	Gly
500		505	510
Lys Val Thr Met	Ile Lys Thr Ala Asp	Leu Lys Val Val Leu	Gly
515		520	525
Lys Phe Tyr Arg	Asp Asp Asp Arg Asp	Glu Lys Thr Ile Gln	Ser
530		535	540
Leu Gln Ile Ser	Ala Ile Ile Leu His	Pro Asn Tyr Asp Pro	Ile
545		550	555
Leu Leu Asp Ala	Asp Ile Ala Ile Leu	Lys Leu Leu Asp Lys	Ala
560		565	570

P2730P1sequencelisting.txt

Arg Ile Ser Thr	Arg Val Gln Pro Ile	Cys Leu Ala Ala Ser	Arg
	575	580	585
Asp Leu Ser Thr	Ser Phe Gln Glu Ser	His Ile Thr Val Ala	Gly
	590	595	600
Trp Asn Val Leu	Ala Asp Val Arg Ser	Pro Gly Phe Lys Asn	Asp
	605	610	615
Thr Leu Arg Ser	Gly Val Val Ser Val	Val Asp Ser Leu Leu	Cys
	620	625	630
Glu Glu Gln His	Glu Asp His Gly Ile	Pro Val Ser Val Thr	Asp
	635	640	645
Asn Met Phe Cys	Ala Ser Trp Glu Pro	Thr Ala Pro Ser Asp	Ile
	650	655	660
Cys Thr Ala Glu	Thr Gly Gly Ile Ala	Ala Val Ser Phe Pro	Gly
	665	670	675
Arg Ala Ser Pro	Glu Pro Arg Trp His	Leu Met Gly Leu Val	Ser
	680	685	690
Trp Ser Tyr Asp	Lys Thr Cys Ser His	Arg Leu Ser Thr Ala	Phe
	695	700	705
Thr Lys Val Leu	Pro Phe Lys Asp Trp	Ile Glu Arg Asn Met	Lys
	710	715	720

<210> 232

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 232

aggttcgtga tggagacaac cgcg 24

<210> 233

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 233

tgtcaaggac gcactgccgt catg 24

<210> 234

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 234

tggccagatc atcaagcgtg tctgtggcaa cgagcggcca gctcctatcc 50

<210> 235

<211> 1964

<212> DNA

<213> Homo sapiens

P2730P1sequencelisting.txt

<400> 235

```
accaggcatt gtatcttcag ttgtcatcaa gttcgcaatc agattggaaa 50
agctcaactt gaagcttttct tgcctgcagt gaagcagaga gatagatatt 100
attcacgtaa taaaaaacat gggcttcaac ctgactttcc acctttccta 150
caaattccga ttactgttgc tgttgacttt gtgcctgaca gtggttgggt 200
gggccaccag taactacttc gtgggtgcc a ttcaagagat tcctaaagca 250
aaggagttca tggctaattt ccataagacc ctcatTTtTg ggaagggaaa 300
aactctgact aatgaagcat ccacgaagaa ggtagaactt gacaactgtc 350
cttctgtgtc tccttacctc agaggccaga gcaagctcat tttcaaacca 400
gatctcactt tggagagggt acaggcagaa aatcccaaag tgtccagagg 450
ccggtatcgc cctcaggaat gtaaagcttt acagagggtc gccatcctcg 500
ttccccaccg gaacagagag aaacacctga tgtacctgct ggaacatctg 550
catcccttcc tgcagaggca gcagctggat tatggcatct acgtcatcca 600
ccaggctgaa ggtaaaaagt ttaatcgagc caaactcttg aatgtgggct 650
atctagaagc cctcaaggaa gaaaattggg actgctttat attccacgat 700
gtggacctgg tacccgagaa tgactttaac ctttacaagt gtgaggagca 750
tcccaagcat ctggtggttg gcaggaacag cactgggtac aggttacgtt 800
acagtggata ttttgggggt gttactgccc taagcagaga gcagtTTTTc 850
aagggtgaatg gattctctaa caactactgg ggatggggag gcgaagacga 900
tgacctcaga ctcagggttg agctccaaag aatgaaaatt tcccggtccc 950
tgcctgaagt gggtaaatat acaatggtct tccacactag agacaaaggc 1000
aatgaggtga acgcagaacg gatgaagctc ttacaccaag tgtcacgagt 1050
ctggagaaca gatgggttga gtagttgttc ttataaatta gtatctgtgg 1100
aacacaatcc tttatatatc aacatcacag tggatttctg gtttgggtgca 1150
tgaccctgga tcttttggtg atgtttggaa gaactgattc tttgtttgca 1200
ataatttttg cctagagact tcaaatagta gcacacatta agaacctgtt 1250
acagctcatt gttgagctga atttttcctt tttgtatttt cttagcagag 1300
ctcctggtga tgtagagtat aaaacagttg taacaagaca gctttcttag 1350
tcattttgat catgaggggt aaatattgta atatggatac ttgaaggact 1400
ttatataaaa ggatgactca aaggataaaa tgaacgctat ttgaggactc 1450
tggttgaagg agattttattt aaatttgaag taatatatta tgggataaaa 1500
ggccacagga aataagactg ctgaatgtct gagagaacca gagttgttct 1550
cgtccaaggt agaaagggtac gaagatacaa tactgttatt catttatcct 1600
gtacaatcat ctgtgaagtg gtgggtgtcag gtgagaaggc gtccacaaaa 1650
gaggggagaa aaggcgacga atcaggacac agtgaacttg ggaatgaaga 1700
```

P2730P1sequencelisting.txt

ggtagcagga gggaggagtgc tcggctgcaa aggcagcagt agctgagctg 1750
 gttgcagggtg ctgatagcct tcaggggagg acctgcccag gtatgccttc 1800
 cagtgatgcc caccagagaaa tacattctct attagttttt aaagagtttt 1850
 tgtaaaatga ttttgtacaa gtaggatatg aattagcagt ttacaagttt 1900
 acatattaac taataataaa tatgtctatc aaatacctct gtagtaaaat 1950
 gtgaaaaagc aaaa 1964

<210> 236
 <211> 344
 <212> PRT
 <213> Homo sapiens

<220>
 <221> Signal peptide
 <222> 1-27
 <223> Signal peptide

<220>
 <221> N-glycosylation sites
 <222> 4-7, 220-223, 335-338
 <223> N-glycosylation sites

<220>
 <221> xylose isomerase proteins
 <222> 191-201
 <223> xylose isomerase proteins

<400> 236
 Met Gly Phe Asn Leu Thr Phe His Leu Ser Tyr Lys Phe Arg Leu
 1 5 10 15
 Leu Leu Leu Leu Thr Leu Cys Leu Thr Val Val Gly Trp Ala Thr
 20 25 30
 Ser Asn Tyr Phe Val Gly Ala Ile Gln Glu Ile Pro Lys Ala Lys
 35 40 45
 Glu Phe Met Ala Asn Phe His Lys Thr Leu Ile Leu Gly Lys Gly
 50 55 60
 Lys Thr Leu Thr Asn Glu Ala Ser Thr Lys Lys Val Glu Leu Asp
 65 70 75
 Asn Cys Pro Ser Val Ser Pro Tyr Leu Arg Gly Gln Ser Lys Leu
 80 85 90
 Ile Phe Lys Pro Asp Leu Thr Leu Glu Glu Val Gln Ala Glu Asn
 95 100 105
 Pro Lys Val Ser Arg Gly Arg Tyr Arg Pro Gln Glu Cys Lys Ala
 110 115 120
 Leu Gln Arg Val Ala Ile Leu Val Pro His Arg Asn Arg Glu Lys
 125 130 135
 His Leu Met Tyr Leu Leu Glu His Leu His Pro Phe Leu Gln Arg
 140 145 150
 Gln Gln Leu Asp Tyr Gly Ile Tyr Val Ile His Gln Ala Glu Gly
 155 160 165
 Lys Lys Phe Asn Arg Ala Lys Leu Leu Asn Val Gly Tyr Leu Glu

P2730P1sequencelisting.txt

170		175		180
Ala Leu Lys Glu	Glu Asn Trp Asp Cys	Phe Ile Phe His Asp	Val	
185	190	195		
Asp Leu Val Pro	Glu Asn Asp Phe Asn	Leu Tyr Lys Cys Glu	Glu	
200	205	210		
His Pro Lys His	Leu Val Val Gly Arg	Asn Ser Thr Gly Tyr	Arg	
215	220	225		
Leu Arg Tyr Ser	Gly Tyr Phe Gly Gly	Val Thr Ala Leu Ser	Arg	
230	235	240		
Glu Gln Phe Phe	Lys Val Asn Gly Phe	Ser Asn Asn Tyr Trp	Gly	
245	250	255		
Trp Gly Gly Glu	Asp Asp Asp Leu Arg	Leu Arg Val Glu Leu	Gln	
260	265	270		
Arg Met Lys Ile	Ser Arg Pro Leu Pro	Glu Val Gly Lys Tyr	Thr	
275	280	285		
Met Val Phe His	Thr Arg Asp Lys Gly	Asn Glu Val Asn Ala	Glu	
290	295	300		
Arg Met Lys Leu	Leu His Gln Val Ser	Arg Val Trp Arg Thr	Asp	
305	310	315		
Gly Leu Ser Ser	Cys Ser Tyr Lys Leu	Val Ser Val Glu His	Asn	
320	325	330		
Pro Leu Tyr Ile	Asn Ile Thr Val Asp	Phe Trp Phe Gly Ala		
335	340			

<210> 237

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 237

ccttacctca gaggccagag caagc 25

<210> 238

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 238

gagcttcacgc ggttctgcgt tcacc 25

<210> 239

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 239

caggaatgta aagctttaca gagggctgcc atcctcggtc cccacc 46

P2730P1sequencelisting.txt

<210> 240
 <211> 2567
 <212> DNA
 <213> Homo sapiens

<400> 240
 cgtgggcccgg ggtcgcgcag cgggctgtgg gcgcgcccgg aggagcgacc 50
 gccgcagttc tcgagctcca gctgcattcc ctccgcgtcc gccccacgct 100
 tctcccgcctc cgggccccgc aatggcccag gcagtgtggt cgcgcctcgg 150
 ccgcatactc tggcttgccct gcctcctgcc ctgggccccg gcaggggtgg 200
 ccgcaggcct gtatgaactc aatctcacca ccgatagccc tgccaccacg 250
 ggagcgggtgg tgaccatctc ggccagcctg gtggccaagg acaacggcag 300
 cctggccctg cccgctgacg cccacctcta ccgcttcac tggaatccaca 350
 ccccgcgtggg gcttactggc aagatggaga agggctctag ctccaccatc 400
 cgtgtggctg gccacgtgcc cggggaattc ccggtctctg tctgggtcac 450
 tgccgctgac tgctggatgt gccagcctgt ggccaggggc tttgtggtcc 500
 tccccatcac agagttcctc gtgggggacc ttgttgtcac ccagaacact 550
 tccctaccct ggcccagctc ctatctcact aagaccgtcc tgaaagtctc 600
 cttcctcctc cacgacccga gcaacttctt caagaccgcc ttgtttctct 650
 acagctggga cttcggggac gggaccaga ttggtgactga agactccgtg 700
 gtctattata actattccat catcgggacc ttcaccgtga agctcaaagt 750
 ggtggcggag tgggaagagg tggagccga tgccacgagg gctgtgaagc 800
 agaagaccgg ggacttctcc gcctcgtga agctgcagga aacccttcga 850
 ggcatacaag tggtggggcc caccctaatt cagaccttc aaaagatgac 900
 cgtgaccttg aacttcctgg ggagccctcc tctgactgtg tgctggcgtc 950
 tcaagcctga gtgcctcccg ctggaggaag gggagtcca ccctgtgtcc 1000
 gtggccagca cagcgtacaa cctgaccac accttcagg accctgggga 1050
 ctactgcttc agcatccggg ccgagaatat catcagcaag acacatcagt 1100
 accacaagat ccagggtgtg ccctccagaa tccagccggc tgtctttgct 1150
 ttcccatgtg ctacacttat cactgtgatg ttggccttca tcatgtacat 1200
 gaccctgcgg aatgccactc agcaaaagga catggtggag aaccgggagc 1250
 caccctctgg ggtcaggtgc tgctgccaga tgtgctgtgg gcctttcttg 1300
 ctggagactc catctgagta cctggaaatt gttcgtgaga accacgggct 1350
 gctcccggcc ctctataagt ctgtcaaac ttacaccgtg tgagcactcc 1400
 ccctccccac cccatctcag tgttaactga ctgctgactt ggagtttcca 1450
 gcaggggtgg gtgcaccact gaccaggagg ggttcatttg cgtggggctg 1500
 ttggcctgga tcatccatcc atctgtacag ttcagccact gccacaagcc 1550

P2730P1sequencelisting.txt

cctccctctc tgtcacccct gacccagcc attcacccat ctgtacagtc 1600
cagccactga cataagcccc actcgggttac cacccttg accccctacc 1650
tttgaagagg cttcgtgcag gactttgatg cttgggggtgt tccgtggtga 1700
ctcctaggtg ggcctggctg cccactgccc attcctctca tattggcaca 1750
tctgctgtcc attgggggtt ctgagtttcc tccccagac agccctacct 1800
gtgccagaga gctagaaaga aggtcataaa gggttaaaaa tccataacta 1850
aaggttgtac acatagatgg gcacactcac agagagaagt gtgcatgtac 1900
acacaccaca cacacacaca cacacacaca cacagaaata taaacacatg 1950
cgtcacatgg gcatttcaga tgatcagctc tgtatctggt taagtcgggtt 2000
gctgggatgc accctgcact agagctgaaa ggaaatttga cctccaagca 2050
gccctgacag gttctgggcc cgggccctcc ctttgtgctt tgtctctgca 2100
gttcttgccg cttttataag gccatcctag tccctgctgg ctggcagggg 2150
cctggatggg gggcaggact aatactgagt gattgcagag tgctttataa 2200
atatcacctt attttatcga aaccatctg tgaaactttc actgaggaaa 2250
aggccttgca gcggtagaag aggttgagtc aaggccgggc gcggtggctc 2300
acgcctgtaa tcccagcact ttgggaggcc gaggcgggtg gatcacgaga 2350
tcaggagatc gagaccaccc tggctaacac ggtgaaaccc cgtctctact 2400
aaaaaaatac aaaaagttag ccgggcgtgg tgggtgggtgc ctgtagtccc 2450
agctactcgg gaggtgagg caggagaatg gtgcgaaccc gggaggcgga 2500
gcttgacgtg agcccagatg gcgccactgc actccagcct gaggtagaca 2550
gcgagactct gtctcca 2567

<210> 241

<211> 423

<212> PRT

<213> Homo sapiens

<400> 241

Met	Ala	Gln	Ala	Val	Trp	Ser	Arg	Leu	Gly	Arg	Ile	Leu	Trp	Leu
1				5					10					15
Ala	Cys	Leu	Leu	Pro	Trp	Ala	Pro	Ala	Gly	Val	Ala	Ala	Gly	Leu
				20					25					30
Tyr	Glu	Leu	Asn	Leu	Thr	Thr	Asp	Ser	Pro	Ala	Thr	Thr	Gly	Ala
				35					40					45
Val	Val	Thr	Ile	Ser	Ala	Ser	Leu	Val	Ala	Lys	Asp	Asn	Gly	Ser
				50					55					60
Leu	Ala	Leu	Pro	Ala	Asp	Ala	His	Leu	Tyr	Arg	Phe	His	Trp	Ile
				65					70					75
His	Thr	Pro	Leu	Val	Leu	Thr	Gly	Lys	Met	Glu	Lys	Gly	Leu	Ser
				80					85					90
Ser	Thr	Ile	Arg	Val	Val	Gly	His	Val	Pro	Gly	Glu	Phe	Pro	Val
				95					100					105

P2730P1sequencelisting.txt

Ser Val Trp Val	Thr 110	Ala Ala Asp Cys	Trp 115	Met Cys Gln Pro	Val 120
Ala Arg Gly Phe	Val 125	Val Leu Pro Ile	Thr 130	Glu Phe Leu Val	Gly 135
Asp Leu Val Val	Thr 140	Gln Asn Thr Ser	Leu 145	Pro Trp Pro Ser	Ser 150
Tyr Leu Thr Lys	Thr 155	Val Leu Lys Val	Ser 160	Phe Leu Leu His	Asp 165
Pro Ser Asn Phe	Leu 170	Lys Thr Ala Leu	Phe 175	Leu Tyr Ser Trp	Asp 180
Phe Gly Asp Gly	Thr 185	Gln Met Val Thr	Glu 190	Asp Ser Val Val	Tyr 195
Tyr Asn Tyr Ser	Ile 200	Ile Gly Thr Phe	Thr 205	Val Lys Leu Lys	Val 210
Val Ala Glu Trp	Glu 215	Glu Val Glu Pro	Asp 220	Ala Thr Arg Ala	Val 225
Lys Gln Lys Thr	Gly 230	Asp Phe Ser Ala	Ser 235	Leu Lys Leu Gln	Glu 240
Thr Leu Arg Gly	Ile 245	Gln Val Leu Gly	Pro 250	Thr Leu Ile Gln	Thr 255
Phe Gln Lys Met	Thr 260	Val Thr Leu Asn	Phe 265	Leu Gly Ser Pro	Pro 270
Leu Thr Val Cys	Trp 275	Arg Leu Lys Pro	Glu 280	Cys Leu Pro Leu	Glu 285
Glu Gly Glu Cys	His 290	Pro Val Ser Val	Ala 295	Ser Thr Ala Tyr	Asn 300
Leu Thr His Thr	Phe 305	Arg Asp Pro Gly	Asp 310	Tyr Cys Phe Ser	Ile 315
Arg Ala Glu Asn	Ile 320	Ile Ser Lys Thr	His 325	Gln Tyr His Lys	Ile 330
Gln Val Trp Pro	Ser 335	Arg Ile Gln Pro	Ala 340	Val Phe Ala Phe	Pro 345
Cys Ala Thr Leu	Ile 350	Thr Val Met Leu	Ala 355	Phe Ile Met Tyr	Met 360
Thr Leu Arg Asn	Ala 365	Thr Gln Gln Lys	Asp 370	Met Val Glu Asn	Pro 375
Glu Pro Pro Ser	Gly 380	Val Arg Cys Cys	Cys 385	Gln Met Cys Cys	Gly 390
Pro Phe Leu Leu	Glu 395	Thr Pro Ser Glu	Tyr 400	Leu Glu Ile Val	Arg 405
Glu Asn His Gly	Leu 410	Leu Pro Pro Leu	Tyr 415	Lys Ser Val Lys	Thr 420
Tyr Thr Val					

P2730P1sequencelisting.txt

<211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 242
 catttcctta ccctggaccc agctcc 26

<210> 243
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 243
 gaaaggccca cagcacatct ggcag 25

<210> 244
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 244
 ccacgaccg agcaacttcc tcaagaccga cttgtttctc tacagc 46

<210> 245
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 245
 gctcaagacc cagcagtggg acagccagac agacggcacg atggcactga 50
 gctcccagat ctgggccgct tgctcctgc tcctcctcct cctcgccagc 100
 ctgaccagtg gctctgtttt cccacaacag acgggacaac ttgcagagct 150
 gcaaccccag gacagagctg gagccagggc cagctggatg cccatgttcc 200
 agaggcgaag gaggcgagac acccacttcc ccatctgcat tttctgctgc 250
 ggctgctgtc atcgatcaaa gtgtgggatg tgctgcaaga cgtagaacct 300
 acctgccctg ccccgctccc ctcccttcct tatttattcc tgctgcccc 350
 gaacataggt cttggaataa aatggctggt tcttttgttt tccaaaaaaa 400
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 450
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 485

<210> 246
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 246
 Met Ala Leu Ser Ser Gln Ile Trp Ala Ala Cys Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Ala Ser Leu Thr Ser Gly Ser Val Phe Pro Gln Gln
 Page 203

P2730P1sequencelisting.txt

20	25	30
Thr Gly Gln Leu Ala Glu Leu Gln Pro Gln Asp Arg Ala Gly Ala		
35	40	45
Arg Ala Ser Trp Met Pro Met Phe Gln Arg Arg Arg Arg Arg Asp		
50	55	60
Thr His Phe Pro Ile Cys Ile Phe Cys Cys Gly Cys Cys His Arg		
65	70	75
Ser Lys Cys Gly Met Cys Cys Lys Thr		
80		

<210> 247
 <211> 2359
 <212> DNA
 <213> Homo sapiens

<400> 247
 ctgtcaggaa ggaccatctg aaggctgcaa tttgttctta gggaggcagg 50
 tgctggcctg gcctggatct tccaccatgt tcctgttgct gccttttgat 100
 agcctgattg tcaaccttct gggcatctcc ctgactgtcc tcttcaccct 150
 ccttctcggt ttcacatag tgccagccat ttttgagtc tcctttggta 200
 tccgcaaact ctacatgaaa agtctgttaa aaatctttgc gtgggctacc 250
 ttgagaatgg agcgaggagc caaggagaag aaccaccagc tttacaagcc 300
 ctacaccaac ggaatcattg caaaggatcc cacttcacta gaagaagaga 350
 tcaaagagat tcgtcgaagt ggtagtagta aggctctgga caacactcca 400
 gagttcgagc tctctgacat tttctacttt tgccggaaag gaatggagac 450
 cattatggat gatgaggtga caaagagatt ctacagcaga gaactggagt 500
 cctggaacct gctgagcaga accaattata acttcagta catcagcctt 550
 cggtcacgg tcctgtgggg gttaggagt ctgattcgg actgctttct 600
 gctgccgctc aggatagcac tggtttcac agggattagc cttctggtgg 650
 tgggcacaac tgtggtggga tacttgccaa atgggaggtt taaggaattc 700
 atgagtaaac atgttcactt aatgtgttac cggatctgcg tgcgagcgt 750
 gacagccatc atcacctacc atgacaggga aaacagacca agaaatggtg 800
 gcatctgtgt ggccaatcat acctcaccga tcgatgtgat catcttggcc 850
 agcgatggct attatgccat ggtgggtcaa gtgcacgggg gactcatggg 900
 tgtgattcag agagccatgg tgaaggcctg cccacacgctc tggtttgagc 950
 gctcggaagt gaaggatcgc cacctggtgg ctaagagact gactgaacat 1000
 gtgcaagata aaagcaagct gcctatcctc atcttcccag aaggaacctg 1050
 catcaataat acatcggtga tgatgttcaa aaagggaagt tttgaaattg 1100
 gagccacagt ttaccctggt gctatcaagt atgaccctca atttggcgat 1150
 gccttctgga acagcagcaa atacgggatg gtgacgtacc tgctgcgaat 1200

P2730P1sequencelisting.txt

gatgaccagc tgggccattg tctgcagcgt gtggtacctg cctcccatga 1250
ctagagagggc agatgaagat gctgtccagt ttgcgaatag ggtgaaatct 1300
gccattgccca ggcagggagg acttgtggac ctgctgtggg atgggggcct 1350
gaagagggag aaggtgaagg acacgttcaa ggaggagcag cagaagctgt 1400
acagcaagat gatcgtgggg aaccacaagg acaggagccg ctcttgagcc 1450
tgcctccagc tggctggggc caccgtgcgg ggtgccaacg ggctcagagc 1500
tggagttgcc gccgccggcc cactgtctgt gtcctttcca gactccaggg 1550
ctccccgggc tgctctggat cccaggactc cggctttcgc cgagccgcag 1600
cgggatccct gtgcacccgg cgcagcctac ccttggtggt ctaaaccgat 1650
gctgctgggt gttgcgaccc aggacgagat gccttgtttc ttttacaata 1700
agtcgttggg ggaatgccat taaagtgaac tccccacctt tgcacgctgt 1750
gcgggctgag tgggtgggga gatgtggcca tggctctgtg ctagagatgg 1800
cgggtacaaga gtctgttatg caagcccgtg tgccagggat gtgctggggg 1850
cggccacccg ctctccagga aaggcacagc tgaggcactg tggctggctt 1900
cggcctcaac atcgccccca gccttgagc tctgcagaca tgataggaag 1950
gaaactgtca tctgcagggg ctttcagcaa aatgaagggt tagattttta 2000
tgctgctgct gatgggggta ctaaaggag ggaagaggc cagggtggcc 2050
gctgactggg ccatggggag aacgtgtgtt cgtactccag gctaaccctg 2100
aactccccat gtgatgcgcg ctttggtgaa tgtgtgtctc ggtttcccca 2150
tctgtaatat gagtcggggg gaatggtggt gattcctacc tcacagggt 2200
gttggtggga ttaagtgtc gcgggtgagt gaaggacaca tcacgttcag 2250
tgtttcaagt acaggccac aaaacggggc acggcaggcc tgagctcaga 2300
gctgctgcac tgggctttgg atttgttctt gtgagtaaataaaaactggct 2350
ggtgaatga 2359

<210> 248
<211> 456
<212> PRT
<213> Homo sapiens

<400> 248
Met Phe Leu Leu Leu Pro Phe Asp Ser Leu Ile Val Asn Leu Leu
1 5 10 15
Gly Ile Ser Leu Thr Val Leu Phe Thr Leu Leu Leu Val Phe Ile
20 25 30
Ile Val Pro Ala Ile Phe Gly Val Ser Phe Gly Ile Arg Lys Leu
35 40 45
Tyr Met Lys Ser Leu Leu Lys Ile Phe Ala Trp Ala Thr Leu Arg
50 55 60
Met Glu Arg Gly Ala Lys Glu Lys Asn His Gln Leu Tyr Lys Pro
65 70 75

P2730P1sequencelisting.txt

Tyr Thr Asn Gly Ile	Ile Ala Lys Asp Pro Thr Ser Leu Glu Glu	80	85	90
Glu Ile Lys Glu Ile	Arg Arg Ser Gly Ser Ser Lys Ala Leu Asp	95	100	105
Asn Thr Pro Glu Phe	Glu Leu Ser Asp Ile Phe Tyr Phe Cys Arg	110	115	120
Lys Gly Met Glu Thr	Ile Met Asp Asp Glu Val Thr Lys Arg Phe	125	130	135
Ser Ala Glu Glu Leu	Glu Ser Trp Asn Leu Leu Ser Arg Thr Asn	140	145	150
Tyr Asn Phe Gln Tyr	Ile Ser Leu Arg Leu Thr Val Leu Trp Gly	155	160	165
Leu Gly Val Leu Ile	Arg Tyr Cys Phe Leu Leu Pro Leu Arg Ile	170	175	180
Ala Leu Ala Phe Thr	Gly Ile Ser Leu Leu Val Val Gly Thr Thr	185	190	195
Val Val Gly Tyr Leu	Pro Asn Gly Arg Phe Lys Glu Phe Met Ser	200	205	210
Lys His Val His Leu	Met Cys Tyr Arg Ile Cys Val Arg Ala Leu	215	220	225
Thr Ala Ile Ile Thr	Tyr His Asp Arg Glu Asn Arg Pro Arg Asn	230	235	240
Gly Gly Ile Cys Val	Ala Asn His Thr Ser Pro Ile Asp Val Ile	245	250	255
Ile Leu Ala Ser Asp	Gly Tyr Tyr Ala Met Val Gly Gln Val His	260	265	270
Gly Gly Leu Met Gly	Val Ile Gln Arg Ala Met Val Lys Ala Cys	275	280	285
Pro His Val Trp Phe	Glu Arg Ser Glu Val Lys Asp Arg His Leu	290	295	300
Val Ala Lys Arg Leu	Thr Glu His Val Gln Asp Lys Ser Lys Leu	305	310	315
Pro Ile Leu Ile Phe	Pro Glu Gly Thr Cys Ile Asn Asn Thr Ser	320	325	330
Val Met Met Phe Lys	Lys Gly Ser Phe Glu Ile Gly Ala Thr Val	335	340	345
Tyr Pro Val Ala Ile	Lys Tyr Asp Pro Gln Phe Gly Asp Ala Phe	350	355	360
Trp Asn Ser Ser Lys	Tyr Gly Met Val Thr Tyr Leu Leu Arg Met	365	370	375
Met Thr Ser Trp Ala	Ile Val Cys Ser Val Trp Tyr Leu Pro Pro	380	385	390
Met Thr Arg Glu Ala	Asp Glu Asp Ala Val Gln Phe Ala Asn Arg	395	400	405
Val Lys Ser Ala Ile	Ala Arg Gln Gly Gly Leu Val Asp Leu Leu			

410

415

420

Trp Asp Gly Gly Leu Lys Arg Glu Lys Val Lys Asp Thr Phe Lys
 425 430 435

Glu Glu Gln Gln Lys Leu Tyr Ser Lys Met Ile Val Gly Asn His
 440 445 450

Lys Asp Arg Ser Arg Ser
 455

<210> 249

<211> 1103

<212> DNA

<213> Homo sapiens

<400> 249

gccccctcgaa accaggactc cagcacctct ggtcccgccc tcacccggac 50
 ccctggccct cacgtctcct ccagggatgg cgctggcggc tttgatgac 100
 gccctcggca gcctcggcct ccacacctgg caggcccagg ctgttccac 150
 catcctgccc ctgggcctgg ctccagacac ctttgacgat acctatgtgg 200
 gttgtgcaga ggagatggag gagaaggcag cccccctgct aaaggaggaa 250
 atggcccacc atgccctgct gcgggaatcc tgggaggcag cccaggagac 300
 ctgggaggac aagcgtcgag ggcttacctt gccccctggc ttcaaagccc 350
 agaatggaat agccattatg gtctacacca actcatcgaa caccttgtac 400
 tgggagttga atcaggccgt gcggacgggc ggaggctccc gggagctcta 450
 catgaggcac tttcccttca aggccctgca tttctacctg atccgggccc 500
 tgcagctgct gcgaggcagt gggggctgca gcaggggacc tggggaggtg 550
 gtgttccgag gtgtgggcag ccttcgcttt gaaccaaga ggctggggga 600
 ctctgtccgc ttggggcagt ttgcctccag ctccctggat aaggcagtgg 650
 cccacagatt tggggagaag aggcggggct gtgtgtctgc gccaggggtg 700
 cagctagggt cacaatctga gggggcctcc tctctgcccc cctggaagac 750
 tctgtctttg gccccctggag agttccagct ctcaggggtt gggccctgaa 800
 agtccaacat ctgccactta ggagccctgg gaacgggtga cttcatatg 850
 acgaagaggc acctccagca gccttgagaa gcaagaacat ggttccggac 900
 ccagccctag cagccttctc cccaaccagg atgttggcct ggggaggcca 950
 cagcagggct gagggaaactc tgctatgtga tggggacttc ctgggacaag 1000
 caaggaaagt actgaggcag ccacttgatt gaacggtgtt gcaatgtgga 1050
 gacatggagt tttattgagg tagctacgtg attaaatggt attgcagtgt 1100
 gga 1103

<210> 250

<211> 240

<212> PRT

<213> Homo sapiens

P2730P1sequencelisting.txt

<400> 250

```

Met Ala Leu Ala Ala Leu Met Ile Ala Leu Gly Ser Leu Gly Leu
 1      5      10      15
His Thr Trp Gln Ala Gln Ala Val Pro Thr Ile Leu Pro Leu Gly
      20      25      30
Leu Ala Pro Asp Thr Phe Asp Asp Thr Tyr Val Gly Cys Ala Glu
      35      40      45
Glu Met Glu Glu Lys Ala Ala Pro Leu Leu Lys Glu Glu Met Ala
      50      55      60
His His Ala Leu Leu Arg Glu Ser Trp Glu Ala Ala Gln Glu Thr
      65      70      75
Trp Glu Asp Lys Arg Arg Gly Leu Thr Leu Pro Pro Gly Phe Lys
      80      85      90
Ala Gln Asn Gly Ile Ala Ile Met Val Tyr Thr Asn Ser Ser Asn
      95     100     105
Thr Leu Tyr Trp Glu Leu Asn Gln Ala Val Arg Thr Gly Gly Gly
     110     115     120
Ser Arg Glu Leu Tyr Met Arg His Phe Pro Phe Lys Ala Leu His
     125     130     135
Phe Tyr Leu Ile Arg Ala Leu Gln Leu Leu Arg Gly Ser Gly Gly
     140     145     150
Cys Ser Arg Gly Pro Gly Glu Val Val Phe Arg Gly Val Gly Ser
     155     160     165
Leu Arg Phe Glu Pro Lys Arg Leu Gly Asp Ser Val Arg Leu Gly
     170     175     180
Gln Phe Ala Ser Ser Ser Leu Asp Lys Ala Val Ala His Arg Phe
     185     190     195
Gly Glu Lys Arg Arg Gly Cys Val Ser Ala Pro Gly Val Gln Leu
     200     205     210
Gly Ser Gln Ser Glu Gly Ala Ser Ser Leu Pro Pro Trp Lys Thr
     215     220     225
Leu Leu Leu Ala Pro Gly Glu Phe Gln Leu Ser Gly Val Gly Pro
     230     235     240

```

<210> 251

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 251

ccaccacctg gaggtcctgc agttgggcag gaactccatc cggcagattg 50

<210> 252

<211> 1076

<212> DNA

<213> Homo sapiens

<400> 252

gtggcttcac ttcagtggtc gacttccaga gagcaatatg gctgggtccc 50

P2730P1sequencelisting.txt

caacatgcct caccctcatc tatatccttt ggcagctcac agggtcagca 100
gcctctggac ccgtgaaaga gctggtcggt tccgttggtg gggccgtgac 150
tttccccctg aagtccaaag taaagcaagt tgactctatt gtctggacct 200
tcaacacaac ccctcttgtc accatacagc cagaaggggg cactatcata 250
gtgacccaaa atcgtaatag ggagagagta gacttcccag atggaggcta 300
ctccctgaag ctgagcaaac tgaagaagaa tgactcaggg atctactatg 350
tggggatata cagctcatca ctccagcagc cctccacca ggagtacgtg 400
ctgcatgtct acgagcacct gtcaaagcct aaagtcacca tgggtctgca 450
gagcaataag aatggcacct gtgtgaccaa tctgacatgc tgcattggaac 500
atggggaaga ggatgtgatt tatacctgga aggccctggg gcaagcagcc 550
aatgagtccc ataattgggtc catcctcccc atctcctgga gatggggaga 600
aagtgatatg accttcatct gcgttgccag gaaccctgtc agcagaaaact 650
tctcaagccc catccttgcc aggaagctct gtgaagggtc tgctgatgac 700
ccagattcct ccatggctct cctgtgtctc ctgttggtgc ccctcctgct 750
cagtctcttt gtactggggc tatttctttg gtttctgaag agagagagac 800
aagaagagta cattgaagag aagaagagag tggacatttg tcgggaaact 850
cctaacatat gccccattc tggagagaac acagagtacg acacaatccc 900
tcacactaat agaacaatcc taaaggaaga tccagcaaat acggtttact 950
ccactgtgga aataccgaaa aagatggaaa atccccactc actgctcacg 1000
atgccagaca caccaaggct atttgcctat gagaatgtta tctagacagc 1050
agtgcactcc cctaagtctc tgctca 1076

<210> 253

<211> 335

<212> PRT

<213> Homo sapiens

<400> 253

Met	Ala	Gly	Ser	Pro	Thr	Cys	Leu	Thr	Leu	Ile	Tyr	Ile	Leu	Trp
1				5					10					15
Gln	Leu	Thr	Gly	Ser	Ala	Ala	Ser	Gly	Pro	Val	Lys	Glu	Leu	Val
			20						25					30
Gly	Ser	Val	Gly	Gly	Ala	Val	Thr	Phe	Pro	Leu	Lys	Ser	Lys	Val
			35						40					45
Lys	Gln	Val	Asp	Ser	Ile	Val	Trp	Thr	Phe	Asn	Thr	Thr	Pro	Leu
			50						55					60
Val	Thr	Ile	Gln	Pro	Glu	Gly	Gly	Thr	Ile	Ile	Val	Thr	Gln	Asn
			65						70					75
Arg	Asn	Arg	Glu	Arg	Val	Asp	Phe	Pro	Asp	Gly	Gly	Tyr	Ser	Leu
			80						85					90
Lys	Leu	Ser	Lys	Leu	Lys	Lys	Asn	Asp	Ser	Gly	Ile	Tyr	Tyr	Val
			95						100					105

P2730P1sequencelisting.txt

Gly	Ile	Tyr	Ser	Ser	Leu	Gln	Gln	Pro	Ser	Thr	Gln	Glu	Tyr
				110				115					120
Val	Leu	His	Val	Tyr	Glu	His	Leu	Ser	Lys	Pro	Lys	Val	Thr
				125					130				135
Gly	Leu	Gln	Ser	Asn	Lys	Asn	Gly	Thr	Cys	Val	Thr	Asn	Leu
				140					145				150
Cys	Cys	Met	Glu	His	Gly	Glu	Glu	Asp	Val	Ile	Tyr	Thr	Trp
				155					160				165
Ala	Leu	Gly	Gln	Ala	Ala	Asn	Glu	Ser	His	Asn	Gly	Ser	Ile
				170					175				180
Pro	Ile	Ser	Trp	Arg	Trp	Gly	Glu	Ser	Asp	Met	Thr	Phe	Ile
				185					190				195
Val	Ala	Arg	Asn	Pro	Val	Ser	Arg	Asn	Phe	Ser	Ser	Pro	Ile
				200					205				210
Ala	Arg	Lys	Leu	Cys	Glu	Gly	Ala	Ala	Asp	Asp	Pro	Asp	Ser
				215					220				225
Met	Val	Leu	Leu	Cys	Leu	Leu	Leu	Val	Pro	Leu	Leu	Leu	Ser
				230					235				240
Phe	Val	Leu	Gly	Leu	Phe	Leu	Trp	Phe	Leu	Lys	Arg	Glu	Arg
				245					250				255
Glu	Glu	Tyr	Ile	Glu	Glu	Lys	Lys	Arg	Val	Asp	Ile	Cys	Arg
				260					265				270
Thr	Pro	Asn	Ile	Cys	Pro	His	Ser	Gly	Glu	Asn	Thr	Glu	Tyr
				275					280				285
Thr	Ile	Pro	His	Thr	Asn	Arg	Thr	Ile	Leu	Lys	Glu	Asp	Pro
				290					295				300
Asn	Thr	Val	Tyr	Ser	Thr	Val	Glu	Ile	Pro	Lys	Lys	Met	Glu
				305					310				315
Pro	His	Ser	Leu	Leu	Thr	Met	Pro	Asp	Thr	Pro	Arg	Leu	Phe
				320					325				330
Tyr	Glu	Asn	Val	Ile									
				335									

<210> 254
 <211> 1053
 <212> DNA
 <213> Homo sapiens

<400> 254
 ctggttcccc aacatgcctc accctcatct atatcctttg gcagctcaca 50
 gggtcagcag cctctggacc cgtgaaagag ctggtcgggt ccgttggtgg 100
 ggccgtgact ttccccctga agtccaaagt aaagcaagtt gactctattg 150
 tctggacctt caacacaacc cctcttgtca ccatacagcc agaagggggc 200
 actatcatag tgacccaaaa tcgtaatagg gagagagtag acttcccaga 250
 tggaggctac tcctgaagc tcagcaaact gaagaagaat gactcagggg 300
 tctactatgt ggggatatac agctcatcac tccagcagcc ctccaccag 350

P2730P1sequencelisting.txt

gagtacgtgc tgcattgtcta cgagcacctg tcaaagccta aagtcacat 400
 gggctctgcag agcaataaga atggcacctg tgtgaccaat ctgacatgct 450
 gcatggaaca tggggaagag gatgtgattt atacctggaa ggccctgggg 500
 caagcagcca atgagtgcca taatgggtcc atcctcccca tctcctggag 550
 atggggagaa agtgatatga ccttcattctg cgttgccagg aaccctgtca 600
 gcagaaactt ctcaagcccc atccttgcca ggaagctctg tgaagggtgct 650
 gctgatgacc cagattcctc catggctcctc ctgtgtctcc tggttggtgcc 700
 cctcctgctc agtctctttg tactggggct atttctttgg tttctgaaga 750
 gagagagaca agaagagtac attgaagaga agaagagagt ggacatttgt 800
 cgggaaactc ctaacatatg ccccatctt ggagagaaca cagagtacga 850
 cacaatccct cacactaata gaacaatcct aaaggaagat ccagcaaata 900
 cggtttactc cactgtggaa ataccgaaaa agatggaaaa tccccactca 950
 ctgctcacga tgccagacac accaaggcta tttgcctatg agaatgttat 1000
 ctagacagca gtgcactccc ctaagtctct gctcaaaaaa aaaaaaaaaa 1050
 aaa 1053

<210> 255
 <211> 860
 <212> DNA
 <213> Homo sapiens

<400> 255
 gaaagacgtg gtcctgacag acagacaatc ctattcccta ccaaaatgaa 50
 gatgctgctg ctgctgtgtt tgggactgac cctagtctgt gtccatgcag 100
 aagaagctag ttctacggga aggaacttta atgtagaaaa gattaatggg 150
 gaatggcata ctattatcct ggccctctgac aaaagagaaa agatagaaga 200
 acatggcaac tttagacttt ttctggagca aatccatgtc ttggagaatt 250
 ccttagttct taaagtccat actgtaagag atgaagagtg ctccgaatta 300
 tctatggttg ctgacaaaac agaaaaggct ggtgaatatt ctgtgacgta 350
 tgatggattc aatacattta ctatacctaa gacagactat gataactttc 400
 ttatggctca cctcattaac gaaaaggatg gggaaacctt ccagctgatg 450
 gggctctatg gccgagaacc agatttgagt tcagacatca aggaaagggt 500
 tgcacaacta tgtgaggagc atggaatcct tagagaaaat atcattgacc 550
 tatccaatgc caatcgctgc ctccaggccc gagaatgaag aatggcctga 600
 gcctccagtg ttgagtggac acttctcacc aggactccac catcatccct 650
 tcctatccat acagcatccc cagtataaat tctgtgatct gcattccatc 700
 ctgtctcact gagaagtcca attccagtct atcaacatgt tacctaggat 750
 acctcatcaa gaatcaaaga cttctttaa tttctctttg atacaccctt 800

P2730P1sequencelisting.txt

gacaattttt catgaaatta ttcctcttcc tgttcaataa atgattaccc 850
ttgcacttaa 860

<210> 256
<211> 180
<212> PRT
<213> Homo sapiens

<400> 256
Met Lys Met Leu Leu Leu Leu Cys Leu Gly Leu Thr Leu Val Cys
1 5 10 15
Val His Ala Glu Glu Ala Ser Ser Thr Gly Arg Asn Phe Asn Val
20 25 30
Glu Lys Ile Asn Gly Glu Trp His Thr Ile Ile Leu Ala Ser Asp
35 40 45
Lys Arg Glu Lys Ile Glu Glu His Gly Asn Phe Arg Leu Phe Leu
50 55 60
Glu Gln Ile His Val Leu Glu Asn Ser Leu Val Leu Lys Val His
65 70 75
Thr Val Arg Asp Glu Glu Cys Ser Glu Leu Ser Met Val Ala Asp
80 85 90
Lys Thr Glu Lys Ala Gly Glu Tyr Ser Val Thr Tyr Asp Gly Phe
95 100 105
Asn Thr Phe Thr Ile Pro Lys Thr Asp Tyr Asp Asn Phe Leu Met
110 115 120
Ala His Leu Ile Asn Glu Lys Asp Gly Glu Thr Phe Gln Leu Met
125 130 135
Gly Leu Tyr Gly Arg Glu Pro Asp Leu Ser Ser Asp Ile Lys Glu
140 145 150
Arg Phe Ala Gln Leu Cys Glu Glu His Gly Ile Leu Arg Glu Asn
155 160 165
Ile Ile Asp Leu Ser Asn Ala Asn Arg Cys Leu Gln Ala Arg Glu
170 175 180

<210> 257
<211> 766
<212> DNA
<213> Homo sapiens

<400> 257
ggctcgagcg tttctgagcc aggggtgacc atgacctgct gcgaaggatg 50
gacatcctgc aatggattca gcctgctggt tctactgctg ttaggagtag 100
ttctcaatgc gatactcta attgtcagct tagttgagga agaccaattt 150
tctcaaaacc ccatctcttg ctttgagtgg tgggtcccag gaattatagg 200
agcaggctctg atggccattc cagcaacaac aatgtccttg acagcaagaa 250
aaagagcgtg ctgcaacaac agaactggaa tgtttctttc atcatttttc 300
agtgtgatca cagtcattgg tgctctgtat tgcattgctga tatccatcca 350
ggctctctta aaaggtcctc tcatgtgtaa ttctccaagc aacagtaatg 400

P2730P1sequencelisting.txt

ccaattgtga attttcattg aaaaacatca gtgacattca tccagaatcc 450
 ttcaacttgc agtgggtttt caatgactct tgtgcacctc ctactgggtt 500
 caataaacc accagtaacg acaccatggc gagtggctgg agagcatcta 550
 gtttccactt cgattctgaa gaaaacaaac ataggcttat ccactttctca 600
 gtatttttag gtctattgct tgttggaatt ctggaggtcc tgtttgggct 650
 cagtcagata gtcacgggtt tccttggctg tctgtgtgga gtctctaagc 700
 gaagaagtca aattgtgtag tttaatggga ataaaatgta agtatcagta 750
 gtttgaaaaa aaaaaa 766

<210> 258

<211> 229

<212> PRT

<213> Homo sapiens

<400> 258

Met	Thr	Cys	Cys	Glu	Gly	Trp	Thr	Ser	Cys	Asn	Gly	Phe	Ser	Leu	1	5	10	15
Leu	Val	Leu	Leu	Leu	Leu	Gly	Val	Val	Leu	Asn	Ala	Ile	Pro	Leu	20	25	30	35
Ile	Val	Ser	Leu	Val	Glu	Glu	Asp	Gln	Phe	Ser	Gln	Asn	Pro	Ile	40	45	50	55
Ser	Cys	Phe	Glu	Trp	Trp	Phe	Pro	Gly	Ile	Ile	Gly	Ala	Gly	Leu	60	65	70	75
Met	Ala	Ile	Pro	Ala	Thr	Thr	Met	Ser	Leu	Thr	Ala	Arg	Lys	Arg	80	85	90	95
Ala	Cys	Cys	Asn	Asn	Arg	Thr	Gly	Met	Phe	Leu	Ser	Ser	Phe	Phe	100	105	110	115
Ser	Val	Ile	Thr	Val	Ile	Gly	Ala	Leu	Tyr	Cys	Met	Leu	Ile	Ser	120	125	130	135
Ile	Gln	Ala	Leu	Leu	Lys	Gly	Pro	Leu	Met	Cys	Asn	Ser	Pro	Ser	140	145	150	155
Asn	Ser	Asn	Ala	Asn	Cys	Glu	Phe	Ser	Leu	Lys	Asn	Ile	Ser	Asp	160	165	170	175
Ile	His	Pro	Glu	Ser	Phe	Asn	Leu	Gln	Trp	Phe	Phe	Asn	Asp	Ser	180	185	190	195
Cys	Ala	Pro	Pro	Thr	Gly	Phe	Asn	Lys	Pro	Thr	Ser	Asn	Asp	Thr	200	205	210	215
Met	Ala	Ser	Gly	Trp	Arg	Ala	Ser	Ser	Phe	His	Phe	Asp	Ser	Glu	220	225	230	235
Glu	Asn	Lys	His	Arg	Leu	Ile	His	Phe	Ser	Val	Phe	Leu	Gly	Leu	240	245	250	255
Leu	Leu	Val	Gly	Ile	Leu	Glu	Val	Leu	Phe	Gly	Leu	Ser	Gln	Ile	260	265	270	275
Val	Ile	Gly	Phe	Leu	Gly	Cys	Leu	Cys	Gly	Val	Ser	Lys	Arg	Arg	280	285	290	295

Ser Gln Ile Val

<210> 259
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 259
 gtcgaatcca aatcactcat tgtgaaagct gagctcacag ccgaataagc 50
 caccatgagg ctgtcagtgt gtctcctgat ggtctcgtg gccctttgct 100
 gctaccaggc ccatgtctctt gtctgcccag ctgttgcttc tgagatcaca 150
 gtctttcttat tcttaagtga cgctgcggta aacctccaag ttgccaaact 200
 taatccacct ccagaagctc ttgcagccaa gttggaagtg aagcactgca 250
 ccgatcagat atcttttaag aaacgactct cattgaaaaa gtcctgggtg 300
 aaatagtga aaaatgtggt gtgtgacatg taaaaatgct caacctgggt 350
 tccaaagtct ttcaacgaca ccctgatctt cactaaaaat tgtaaagggt 400
 tcaacacggt gctttaataa atcacttgcc ctgc 434

<210> 260
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 260
 Met Arg Leu Ser Val Cys Leu Leu Met Val Ser Leu Ala Leu Cys
 1 5 10 15
 Cys Tyr Gln Ala His Ala Leu Val Cys Pro Ala Val Ala Ser Glu
 20 25 30
 Ile Thr Val Phe Leu Phe Leu Ser Asp Ala Ala Val Asn Leu Gln
 35 40 45
 Val Ala Lys Leu Asn Pro Pro Pro Glu Ala Leu Ala Ala Lys Leu
 50 55 60
 Glu Val Lys His Cys Thr Asp Gln Ile Ser Phe Lys Lys Arg Leu
 65 70 75
 Ser Leu Lys Lys Ser Trp Trp Lys
 80

<210> 261
 <211> 636
 <212> DNA
 <213> Homo sapiens

<400> 261
 atccgttctc tgcgctgcca gctcaggtga gccctcgcca aggtgacctc 50
 gcaggacact ggtgaaggag cagtgaggaa cctgcagagt cacacagttg 100
 ctgaccaatt gagctgtgag cctggagcag atccgtgggc tgcagacccc 150
 cgccccagtg cctctcccc tgcagccctg cccctcgaac tgtgacatgg 200
 agagagtgac cctggccctt ctctactgg caggcctgac tgccttgga 250
 gccaatgacc catttgccaa taaagacgat cccttctact atgactggaa 300

P2730P1sequencelisting.txt

aaacctgcag ctgagcggac tgatctgcgg agggctcctg gccattgctg 350
 ggatcgcggc agttctgagt ggcaaatgca aatacaagag cagccagaag 400
 cagcacagtc ctgtacctga gaaggccatc ccactcatca ctccaggctc 450
 tgccactact tgctgagcac aggactggcc tccaggggatg gcctgaagcc 500
 taacactggc ccccagcacc tcctcccctg ggaggcctta tcctcaagga 550
 aggacttctc tccaagggca ggctgttagg cccctttctg atcaggaggc 600
 ttctttatga attaaactcg ccccaccacc ccctca 636

<210> 262
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 262
 Met Glu Arg Val Thr Leu Ala Leu Leu Leu Leu Ala Gly Leu Thr 15
 1 5 10
 Ala Leu Glu Ala Asn Asp Pro Phe Ala Asn Lys Asp Asp Pro Phe 30
 20 25 30
 Tyr Tyr Asp Trp Lys Asn Leu Gln Leu Ser Gly Leu Ile Cys Gly 45
 35 40 45
 Gly Leu Leu Ala Ile Ala Gly Ile Ala Ala Val Leu Ser Gly Lys 60
 50 55 60
 Cys Lys Tyr Lys Ser Ser Gln Lys Gln His Ser Pro Val Pro Glu 75
 65 70 75
 Lys Ala Ile Pro Leu Ile Thr Pro Gly Ser Ala Thr Thr Cys 80 85

<210> 263
 <211> 1676
 <212> DNA
 <213> Homo sapiens

<400> 263
 ggagaagagg ttgtgtggga caagctgctc ccgacagaag gatgtcgctg 50
 ctgagcctgc cctggctggg cctcagaccg gtggcaatgt ccccatggct 100
 actcctgctg ctgggtgtgg gctcctggct actcgcccg c atcctggctt 150
 ggacctatgc cttctataac aactgccgcc ggctccagt tttccacag 200
 cccccaaaac ggaactgggt ttgggggtcac ctgggcctga tctctctac 250
 agaggagggc ttgaaggact cgacccagat gtcggccacc tattcccagg 300
 gctttacggt atggctgggt cccatcatcc cttcatcgt tttatgccac 350
 cctgacacca tccggtctat caccaatgcc tcagctgcca ttgcaccaa 400
 ggataatctc ttcacaggt tcctgaagcc ctggctggga gaagggatac 450
 tgctgagtgg cggtgacaag tggagccgcc accgtcggat gctgacgccc 500
 gcctttcatt tcaacatcct gaagtcctat ataacgatct tcaacaagag 550
 tgcaaacatc atgcttgaca agtggcagca cctggcctca gagggcagca 600

P2730P1sequencelisting.txt

gtcgtctgga catgtttgag cacatcagcc tcatgacctt ggacagtcta 650
cagaaatgca tcttcagctt tgacagccat tgtcaggaga ggcccagtga 700
atatattgcc accatcttgg agctcagtgc ccttgtagag aaaagaagcc 750
agcatatcct ccagcacatg gactttctgt attacctctc ccatgacggg 800
cggcgcttcc acagggcctg ccgcctggtg catgacttca cagacgctgt 850
catccgggag cggcgtcgca ccctccccac tcagggtatt gatgattttt 900
tcaaagacaa agccaagtcc aagactttgg atttcattga tgtgcttctg 950
ctgagcaagg atgaagatgg gaaggcattg tcagatgagg atataagagc 1000
agaggctgac accttcatgt ttggaggcca tgacaccacg gccagtggcc 1050
tctcctgggt cctgtacaac cttgcgaggc acccagaata ccaggagcgc 1100
tgccgacagg aggtgcaaga gcttctgaag gaccgcatc ctaaagagat 1150
tgaatgggac gacctggccc agctgccctt cctgaccatg tgcgtgaagg 1200
agagcctgag gttacatccc ccagctccct tcatctcccg atgctgcacc 1250
caggacattg ttctcccaga tggccgagtc atccccaaag gcattacctg 1300
cctcatcgat attatagggg tccatcacia cccaactgtg tggccggatc 1350
ctgaggtcta cgacccttc cgctttgacc cagagaacag caaggggagg 1400
tcacctctgg cttttattcc tttctccga gggcccagga actgcatcgg 1450
gcaggcgctt gccatggcgg agatgaaagt ggtcctggcg ttgatgctgc 1500
tgcacttccg gttcctgcca gaccacactg agccccgcag gaagctggaa 1550
ttgatcatgc gcgccgaggg cgggctttgg ctgcgggtgg agcccctgaa 1600
tgtaggcttg cagtgacttt ctgacccatc cacctgtttt tttgcagatt 1650
gtcatgaata aaacggtgct gtcaaa 1676

<210> 264

<211> 524

<212> PRT

<213> Homo sapiens

<400> 264

Met	Ser	Leu	Leu	Ser	Leu	Pro	Trp	Leu	Gly	Leu	Arg	Pro	Val	Ala
1				5					10					15
Met	Ser	Pro	Trp	Leu	Leu	Leu	Leu	Val	Val	Gly	Ser	Trp	Leu	
				20				25					30	
Leu	Ala	Arg	Ile	Leu	Ala	Trp	Thr	Tyr	Ala	Phe	Tyr	Asn	Asn	Cys
				35					40					45
Arg	Arg	Leu	Gln	Cys	Phe	Pro	Gln	Pro	Pro	Lys	Arg	Asn	Trp	Phe
				50				55						60
Trp	Gly	His	Leu	Gly	Leu	Ile	Thr	Pro	Thr	Glu	Glu	Gly	Leu	Lys
				65				70						75
Asp	Ser	Thr	Gln	Met	Ser	Ala	Thr	Tyr	Ser	Gln	Gly	Phe	Thr	Val
				80					85					90

P2730P1sequencelisting.txt

Trp	Leu	Gly	Pro	Ile	Ile	Pro	Phe	Ile	Val	Leu	Cys	His	Pro	Asp
				95					100					105
Thr	Ile	Arg	Ser	Ile	Thr	Asn	Ala	Ser	Ala	Ala	Ile	Ala	Pro	Lys
				110					115					120
Asp	Asn	Leu	Phe	Ile	Arg	Phe	Leu	Lys	Pro	Trp	Leu	Gly	Glu	Gly
				125					130					135
Ile	Leu	Leu	Ser	Gly	Gly	Asp	Lys	Trp	Ser	Arg	His	Arg	Arg	Met
				140					145					150
Leu	Thr	Pro	Ala	Phe	His	Phe	Asn	Ile	Leu	Lys	Ser	Tyr	Ile	Thr
				155					160					165
Ile	Phe	Asn	Lys	Ser	Ala	Asn	Ile	Met	Leu	Asp	Lys	Trp	Gln	His
				170					175					180
Leu	Ala	Ser	Glu	Gly	Ser	Ser	Arg	Leu	Asp	Met	Phe	Glu	His	Ile
				185					190					195
Ser	Leu	Met	Thr	Leu	Asp	Ser	Leu	Gln	Lys	Cys	Ile	Phe	Ser	Phe
				200					205					210
Asp	Ser	His	Cys	Gln	Glu	Arg	Pro	Ser	Glu	Tyr	Ile	Ala	Thr	Ile
				215					220					225
Leu	Glu	Leu	Ser	Ala	Leu	Val	Glu	Lys	Arg	Ser	Gln	His	Ile	Leu
				230					235					240
Gln	His	Met	Asp	Phe	Leu	Tyr	Tyr	Leu	Ser	His	Asp	Gly	Arg	Arg
				245					250					255
Phe	His	Arg	Ala	Cys	Arg	Leu	Val	His	Asp	Phe	Thr	Asp	Ala	Val
				260					265					270
Ile	Arg	Glu	Arg	Arg	Arg	Thr	Leu	Pro	Thr	Gln	Gly	Ile	Asp	Asp
				275					280					285
Phe	Phe	Lys	Asp	Lys	Ala	Lys	Ser	Lys	Thr	Leu	Asp	Phe	Ile	Asp
				290					295					300
Val	Leu	Leu	Leu	Ser	Lys	Asp	Glu	Asp	Gly	Lys	Ala	Leu	Ser	Asp
				305					310					315
Glu	Asp	Ile	Arg	Ala	Glu	Ala	Asp	Thr	Phe	Met	Phe	Gly	Gly	His
				320					325					330
Asp	Thr	Thr	Ala	Ser	Gly	Leu	Ser	Trp	Val	Leu	Tyr	Asn	Leu	Ala
				335					340					345
Arg	His	Pro	Glu	Tyr	Gln	Glu	Arg	Cys	Arg	Gln	Glu	Val	Gln	Glu
				350					355					360
Leu	Leu	Lys	Asp	Arg	Asp	Pro	Lys	Glu	Ile	Glu	Trp	Asp	Asp	Leu
				365					370					375
Ala	Gln	Leu	Pro	Phe	Leu	Thr	Met	Cys	Val	Lys	Glu	Ser	Leu	Arg
				380					385					390
Leu	His	Pro	Pro	Ala	Pro	Phe	Ile	Ser	Arg	Cys	Cys	Thr	Gln	Asp
				395					400					405
Ile	Val	Leu	Pro	Asp	Gly	Arg	Val	Ile	Pro	Lys	Gly	Ile	Thr	Cys
				410					415					420
Leu	Ile	Asp	Ile	Ile	Gly	Val	His	His	Asn	Pro	Thr	Val	Trp	Pro

P2730P1sequencelisting.txt

425		430	435
Asp Pro Glu Val	Tyr Asp Pro Phe Arg Phe Asp Pro Glu Asn Ser		
440	445	450	
Lys Gly Arg Ser	Pro Leu Ala Phe Ile Pro Phe Ser Ala Gly Pro		
455	460	465	
Arg Asn Cys Ile	Gly Gln Ala Phe Ala Met Ala Glu Met Lys Val		
470	475	480	
Val Leu Ala Leu	Met Leu Leu His Phe Arg Phe Leu Pro Asp His		
485	490	495	
Thr Glu Pro Arg	Arg Lys Leu Glu Leu Ile Met Arg Ala Glu Gly		
500	505	510	
Gly Leu Trp Leu	Arg Val Glu Pro Leu Asn Val Gly Leu Gln		
515	520		

<210> 265
 <211> 584
 <212> DNA
 <213> Homo sapiens

<400> 265
 caacagaagc caagaaggaa gccgtctatc ttgtggcgat catgtataag 50
 ctggcctcct gctgtttgct tttcacagga ttcttaaate ctctcttate 100
 tcttcctctc cttgactcca gggaaatate ctttcaactc tcagcacctc 150
 atgaagacgc gcgcttaact ccggaggagc tagaaagagc ttcccttcta 200
 cagatatgtc cagagatgct ggggtgcagaa agaggggata ttctcaggaa 250
 agcagactca agtaccaca tttttaaccc aagaggaaat ttgagaaagt 300
 ttcaggattt ctctggacaa gacctaaca tttactgag tcattctttg 350
 gccagaatct ggaaaccata caagaaacgt gagactcctg attgcttctg 400
 gaaatactgt gtctgaagtg aaataagcat ctgttagtca gctcagaaac 450
 acccatctta gaatatgaaa aataacacaa tgcttgattt gaaaacagtg 500
 tggagaaaaa ctaggcaaac tacaccctgt tcattgttac ctggaaaata 550
 aatcctctat gttttgcaca aaaaaaaaaa aaaa 584

<210> 266
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 266	
Met Tyr Lys Leu Ala Ser Cys Cys Leu Leu Phe Thr Gly Phe Leu	
1 5 10 15	
Asn Pro Leu Leu Ser Leu Pro Leu Leu Asp Ser Arg Glu Ile Ser	
20 25 30	
Phe Gln Leu Ser Ala Pro His Glu Asp Ala Arg Leu Thr Pro Glu	
35 40 45	
Glu Leu Glu Arg Ala Ser Leu Leu Gln Ile Leu Pro Glu Met Leu	
50 55 60	

P2730P1sequencelisting.txt

Gly Ala Glu Arg Gly Asp Ile Leu Arg Lys Ala Asp Ser Ser Thr
65 70 75
Asn Ile Phe Asn Pro Arg Gly Asn Leu Arg Lys Phe Gln Asp Phe
80 85 90
Ser Gly Gln Asp Pro Asn Ile Leu Leu Ser His Leu Leu Ala Arg
95 100 105
Ile Trp Lys Pro Tyr Lys Lys Arg Glu Thr Pro Asp Cys Phe Trp
110 115 120
Lys Tyr Cys Val

<210> 267
<211> 654
<212> DNA
<213> Homo sapiens

<400> 267
gaacattttt agttcccaag gaatgtacat cagccccacg gaagctaggc 50
cacctctggg atgggggttg tggtttaaaa caaacgccag tcctcctata 100
taaggacctg acagccacca ggcaccacct ccgccaggaa ctgcaggccc 150
acctgtctgc aaccagctg aggccatgcc ctccccaggg accgtctgca 200
gcctcctgct cctcggcatg ctctggctgg acttggccat ggcaggctcc 250
agcttcctga gccctgaaca ccagagagtc cagcagagaa aggagtcgaa 300
gaagccacca gccaaagtgc agccccgagc tctagcaggc tggctccgcc 350
cggaagatgg aggtcaagca gaaggggagc aggatgaact ggaagtccgg 400
ttcaacgccc cttttgatgt tggaatcaag ctgtcagggg ttcagtacca 450
gcagcacagc caggccctgg ggaagtttct tcaggacatc ctctgggaag 500
aggccaaaga ggccccagcc gacaagtgat cgcccacaag ctttactcac 550
ctctctctaa gtttagaagc gctcatctgg cttttcgctt gcttctgcag 600
caactcccac gactgttgta caagctcagg aggcgaataa atgttcaaac 650
tgta 654

<210> 268
<211> 117
<212> PRT
<213> Homo sapiens

<400> 268
Met Pro Ser Pro Gly Thr Val Cys Ser Leu Leu Leu Gly Met
1 5 10 15
Leu Trp Leu Asp Leu Ala Met Ala Gly Ser Ser Phe Leu Ser Pro
20 25 30
Glu His Gln Arg Val Gln Gln Arg Lys Glu Ser Lys Lys Pro Pro
35 40 45
Ala Lys Leu Gln Pro Arg Ala Leu Ala Gly Trp Leu Arg Pro Glu
50 55 60
Asp Gly Gly Gln Ala Glu Gly Ala Glu Asp Glu Leu Glu Val Arg
Page 219

65

70

75

Phe Asn Ala Pro Phe Asp Val Gly Ile Lys Leu Ser Gly Val Gln
80 85 90

Tyr Gln Gln His Ser Gln Ala Leu Gly Lys Phe Leu Gln Asp Ile
95 100 105

Leu Trp Glu Glu Ala Lys Glu Ala Pro Ala Asp Lys
110 115

<210> 269

<211> 1332

<212> DNA

<213> Homo sapiens

<400> 269

cggccacagc tggcatgctc tgcctgatcg ccatcctgct gtatgtcctc 50
gtccagtacc tcgtgaaccc cggggtgctc cgcacggacc ccagatgtca 100
agaatatgaa cacgtggctg ctgttcctcc ccctgttccc ggtgcagggtg 150
cagaccctga tagtcgtgat catcgggatg ctcgtgctcc tgctggactt 200
tcttggtctg gtgcacctgg gccagctgct catcttcac atctacctga 250
gtatgtcccc caccctaagc ccccgatccc cccaaggctg ggtggtcaga 300
gctgctcatc ttacacctct acttgagtat gtccctaacc ctgagcccc 350
cacgcctggg gccagagtct ttgtccccg tgtgcgcatg tgttcagggt 400
cagcctctcc cagaagtgag atcatggaca aaaagggcaa atcacaggaa 450
gaaattaaat ccatgaggac ccagcaggcc cagcaagaag ctgaactcac 500
gccgagacct gcaggagtgg tgccagggtc ttgaagtaac aagtttaaaa 550
tgttcagaga caatggaatg gaatctatta ggcaagaaca ggacattatg 600
aaataaggac aggtggactt ccaaaaacac aagtagaaat tctaacaatg 650
aaatatatta caggcagggtc acccactaac caaacaactg aagcgagagc 700
tgtggtcttg cttggtctca cagtgggcac agcggtaggc ggtcagtcac 750
gttgctgaac gacggagggt aaactcccca gcccagaagaa aacctgtgtt 800
ggaagtaaca acaacctccc tgctcctggc accagccgtt ttggtcatgg 850
tgggccagct gcaaagcgtc ttccattctc tgggcagtgg tggccccgag 900
gctgtggcct ctgaggggtt ttctgtggac acgggcagca gagtgtgtcc 950
aggccagccc ccaagaatgc cctgctcctg acagcttggc caaccctgg 1000
tcagggcaga gggagtggg tgggtcaggc tctgggtca cctccatctc 1050
cagagcatcc cctgcctgca gttgtggcaa gaacgcccag ctcagaatga 1100
acacaccca ccaagagcct ccttggtcat aaccacaggt taccctacaa 1150
accactgtcc ccacacaacc ctggggatgt tttaaacaac acacctctaa 1200
cgcatatctt acagtcactg ttgtcttgcc tgagggttga attttttta 1250
atgaaagtgc aatgaaaatc actggattaa atcctacgga cacagagctg 1300

P2730P1sequencelisting.txt

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1332

<210> 270
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 270
 Met Asn Thr Trp Leu Leu Phe Leu Pro Leu Phe Pro Val Gln Val
 1 5 10 15
 Gln Thr Leu Ile Val Val Ile Ile Gly Met Leu Val Leu Leu Leu
 20 25 30
 Asp Phe Leu Gly Leu Val His Leu Gly Gln Leu Leu Ile Phe His
 35 40 45
 Ile Tyr Leu Ser Met Ser Pro Thr Leu Ser Pro Arg Ser Pro Gln
 50 55 60
 Gly Trp Val Val Arg Ala Ala His Leu Thr Pro Leu Leu Glu Tyr
 65 70 75
 Val Pro Asn Pro Glu Pro Pro Thr Pro Gly Ala Arg Val Phe Val
 80 85 90
 Pro Arg Val Arg Met Cys Ser Gly Ser Ala Ser Pro Arg Ser Glu
 95 100 105
 Ile Met Asp Lys Lys Gly Lys Ser Gln Glu Glu Ile Lys Ser Met
 110 115 120
 Arg Thr Gln Gln Ala Gln Gln Glu Ala Glu Leu Thr Pro Arg Pro
 125 130 135
 Ala Gly Val Val Pro Gly Ala
 140

<210> 271
 <211> 1484
 <212> DNA
 <213> Homo sapiens

<400> 271
 ggagtgacaga tggcatcctt cggttcttcc agacaagctg caagacgctg 50
 accatggcca agatggagct ctcgaaggcc ttctctggcc agcggacact 100
 cctatctgcc atcctcagca tgctatcact cagcttctcc acaacatccc 150
 tgctcagcaa ctactggttt gtgggcacac agaaggtgcc caagcccctg 200
 tgcgagaaaag gtctggcagc caagtgcttt gacatgccag tgtccctgga 250
 tggagatacc aacacatcca cccaggaggt ggtacaatac aactgggaga 300
 ctggggatga ccggttctcc ttccggagct tccggagtgg catgtggcta 350
 tcctgtgagg aaactgtgga agaaccaggg gagaggtgcc gaagtttcat 400
 tgaacttaca ccaccagcca agagaggtga gaaaggacta ctggaatttg 450
 ccacgttgca aggcccatgt caccctcctc tccgatttgg aggggaagcgg 500
 ttgatggaga aggcttcctt cccctcccct cccttggggc tttgtggcaa 550
 aaatcctatg gttatccctg ggaacgcaga tcacctacat cggacttcaa 600

P2730P1sequencelisting.txt

ttcatcagct tcctcctgct actaacagac ttgctactca ctgggaaccc 650
 tgcctgtggg ctcaaactga gcgcctttgc tgctgtttcc tctgtcctgt 700
 caggctctct ggggatggtg gccacatga tgtattcaca agtcttccaa 750
 gcgactgtca acttgggtcc agaagactgg agaccacatg tttggaatta 800
 tggctggggc ttctacatgg cctggctctc cttcacctgc tgcatggcgt 850
 cggctgtcac caccttcaac acgtacacca ggatgggtgct ggagttcaag 900
 tgcaagcata gtaagagctt caaggaaaac ccgaactgcc taccacatca 950
 ccatcagtgt ttccctcggc ggctgtcaag tgcagccccc accgtgggtc 1000
 ctttgaccag ctaccaccag tatcataatc agcccatcca ctctgtctct 1050
 gagggagtcg acttctactc cgagctgcgg aacaagggat ttcaaagagg 1100
 ggccagccag gagctgaaag aagcagttag gtcattctgta gaggaagagc 1150
 agtgtttaga gttaagcggg tttggggagt aggcttgagc cctaccttac 1200
 acgtctgctg attatcaaca tgtgcttaag ccaacatccg tctcttgagc 1250
 atggttttta gaggctacga ataaggctat gaataagggt tatctttaag 1300
 tcctaaggga ttcttgggtg cactgctct ctttctctct acagctccat 1350
 cttgtttcac ccacccca tctcacacat ccagaattcc cttctttact 1400
 gatagtttct gtgccagggt ctgggctaaa ccatggagat aaaaagaaga 1450
 gtaaaataca cttcccgacc ttaaggatct gaaa 1484

<210> 272

<211> 285

<212> PRT

<213> Homo sapiens

<400> 272

Met	Ala	Lys	Met	Glu	Leu	Ser	Lys	Ala	Phe	Ser	Gly	Gln	Arg	Thr
1				5					10					15
Leu	Leu	Ser	Ala	Ile	Leu	Ser	Met	Leu	Ser	Leu	Ser	Phe	Ser	Thr
				20					25					30
Thr	Ser	Leu	Leu	Ser	Asn	Tyr	Trp	Phe	Val	Gly	Thr	Gln	Lys	Val
				35					40					45
Pro	Lys	Pro	Leu	Cys	Glu	Lys	Gly	Leu	Ala	Ala	Lys	Cys	Phe	Asp
				50					55					60
Met	Pro	Val	Ser	Leu	Asp	Gly	Asp	Thr	Asn	Thr	Ser	Thr	Gln	Glu
				65					70					75
Val	Val	Gln	Tyr	Asn	Trp	Glu	Thr	Gly	Asp	Asp	Arg	Phe	Ser	Phe
				80					85					90
Arg	Ser	Phe	Arg	Ser	Gly	Met	Trp	Leu	Ser	Cys	Glu	Glu	Thr	Val
				95					100					105
Glu	Glu	Pro	Gly	Glu	Arg	Cys	Arg	Ser	Phe	Ile	Glu	Leu	Thr	Pro
				110					115					120
Pro	Ala	Lys	Arg	Gly	Glu	Lys	Gly	Leu	Leu	Glu	Phe	Ala	Thr	Leu

P2730P1sequencelisting.txt

125	130	135
Gln Gly Pro Cys His 140	Pro Thr Leu Arg Phe Gly Gly Lys Arg 145	Leu 150
Met Glu Lys Ala Ser 155	Leu Pro Ser Pro Pro 160	Leu Gly Leu Cys Gly 165
Lys Asn Pro Met Val 170	Ile Pro Gly Asn Ala Asp His Leu His 175	Arg 180
Thr Ser Ile His Gln 185	Leu Pro Pro Ala Thr Asn Arg Leu Ala 190	Thr 195
His Trp Glu Pro Cys 200	Leu Trp Ala Gln Thr Glu Arg Leu Cys 205	Cys 210
Cys Phe Leu Cys Pro 215	Val Arg Ser Pro Gly Asp Gly Gly Pro 220	His 225
Asp Val Phe Thr Ser 230	Leu Pro Ser Asp Cys Gln Leu Gly Ser 235	Arg 240
Arg Leu Glu Thr Thr 245	Cys Leu Glu Leu Trp Leu Gly Leu Leu 250	His 255
Gly Leu Ala Leu Leu 260	His Leu Leu His Gly Val Gly Cys His 265	His 270
Leu Gln His Val His 275	Gln Asp Gly Ala Gly Val Gln Val Gln 280	Ala 285

<210> 273
 <211> 1158
 <212> DNA
 <213> Homo sapiens

<400> 273
 aactggaagg aaagaaagaa aggtcagctt tggcccagat gtggttaccc 50
 cttggtctcc tgtctttatg tctttctcct cttcctattc tgtcatctcc 100
 ctcacttaag tctcaggcct gtcagcagct cctgtggaca ttgccatccc 150
 ctctggttagc cttcagagca aacaggacaa cctatgttat ggatgtttcc 200
 accaaccagg gtagtggcat ggagcaccgt aaccatctgt gcttctgtga 250
 tctctatgac agagccactt ctccacctct gaaatgttcc ctgctctgaa 300
 atctggcatg agatggcaca ggtgaccacg cagaagccac cagaatcttg 350
 cctgccctat tctcctccc aagtctgttc tcttattgtc aacctcagca 400
 caacaggctg gcgccaatgg cattacagag aaagcaatct gtgtggctag 450
 tgggcagatt accatgcaag ccccaggaga aatggaggag cttttagacc 500
 acctccctgt cagccagtat taacatgtcc ctttccccct gccccgccgt 550
 agattcagga cattcgcccc tgtgtgccac caaaccagga ctttccccct 600
 ggcttggcat ccctggctct ctcctggtag ccagcaagac gtctgttcca 650
 gggcagtgtg gcattcttca agctccgtta ctatggcgat ggccatgatg 700
 ttacaatccc acttgccctga ataatacaagt gggaagggga agcagagggga 750

P2730P1sequencelisting.txt

aatggggcca tgtgaatgca gctgctctgt tctccctacc ctgaggaaaa 800
 accaaagggga agcaacagga acttctgcaa ctgggttttta tcggaaagat 850
 catcctgcct gcagatgctg ttgaaggggc acaagaaatg tagctggaga 900
 agattgatga aagtgcaggt gtgtaaggaa atagaacagt ctgctgggag 950
 tcagacctgg aattctgatt ccaaactctt tattactttg ggaagtcact 1000
 cagcctcccc gtagccatct ccagggtgac ggaaccaggt gtattacctg 1050
 ctggaaccaa ggaaactaac aatgtaggtt actagtgaat accccaatgg 1100
 tttctccaat tatgcccatt ccaccaaacc aataaaacaa aattctctaa 1150
 cactgaaa 1158

<210> 274
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 274
 Met Trp Leu Pro Leu Gly Leu Leu Ser Leu Cys Leu Ser Pro Leu 15
 1 5 10
 Pro Ile Leu Ser Ser Pro Ser Leu Lys Ser Gln Ala Cys Gln Gln 30
 20 25 30
 Leu Leu Trp Thr Leu Pro Ser Pro Leu Val Ala Phe Arg Ala Asn 45
 35 40 45
 Arg Thr Thr Tyr Val Met Asp Val Ser Thr Asn Gln Gly Ser Gly 60
 50 55 60
 Met Glu His Arg Asn His Leu Cys Phe Cys Asp Leu Tyr Asp Arg 75
 65 70 75
 Ala Thr Ser Pro Pro Leu Lys Cys Ser Leu Leu 85
 80 85

<210> 275
 <211> 2694
 <212> DNA
 <213> Homo sapiens

<400> 275
 gtagcgctc ttgggtctcc cggctgccgc tgctgccgcc gccgcctcgg 50
 gtcgtggagc caggagcgac gtcaccgcca tggcaggcat caaagctttg 100
 attagtttgt cctttggagg agcaatcgga ctgatgtttt tgatgcttgg 150
 atgtgccctt ccaatataca acaaatactg gccctctttt gttctatttt 200
 ttacatcct ttcacctatt ccatactgca tagcaagaag attagtggat 250
 gatacagatg ctatgagtaa cgcttgtaag gaacttgcca tctttcttac 300
 aacgggcatt gtcgtgtcag cttttggact ccctattgta tttgccagag 350
 cacatctgat tgagtgggga gcttgtgcac ttgttctcac aggaaacaca 400
 gtcattcttg caactatact aggctttttc ttggtctttg gaagcaatga 450
 cgacttcagc tggcagcagt ggtgaaaaga aattactgaa ctattgtcaa 500

P2730P1sequencelisting.txt

atggacttcc tgtcatttgt tggccattca cgcacacagg agatggggca 550
gttaatgctg aatggtatag caagcctctt ggggggtattt taggtgctcc 600
cttctcactt ttattgtaag catactattt tcacagagac ttgctgaagg 650
attaaaagga ttttctcttt tggaaaagct tgactgattt cacacttatc 700
tatagtatgc tttttgtggt gtcctgctga atttaaatat ttatgtgttt 750
ttcctgttag gttgattttt tttggaatca atatgcaatg ttaaacactt 800
ttttaatgta atcatttgca ttggttagga attcagaatt ccgccggctc 850
tattactggt caagtacatc ttttctctta aaattattta gcctccatta 900
ttacaaaaaa ttataaaaat aagttttcag tcagtcagga tgacatcact 950
cccaatgtta tgcagacata cagacggttg gcatacgta tagactgtat 1000
actcagtgc aatatagctg catttatacc tcagaggggc caagtgttaa 1050
tgcccatgcc ctccgttaag ggttggtggt tttactggta gacagatgtt 1100
ttgtggattg aaaattattt tatggaattg ctacagagga gtgcttttct 1150
tctcaattgt tagaagaatt tatgttaaac ttttaaggtaa ggggtgtaaaa 1200
acatttttga gataaggttt ttatttatgt ttattattgt tagagtgagt 1250
tgcaatgtgg gaagaaatga cattgaaatt ccagtttttg aatcctgttt 1300
ctattttataa gtgaaatttg tgatctccta tcaacctttc atgttttacc 1350
ctgttaaaat ggacatacat ggaaccacta ctgatgaggg acagttgtat 1400
gtttgcatca tatatgccag aaaaccttcc tctgcttcct ctttttgact 1450
tatttggtat gttgtatata ttacataaaa taacttttca aatatagttt 1500
aataacactt agaagtgttt acttacctgg aaaataattg ctatgccgta 1550
cattcagagt gccccctccc ctgcaaggcc ttgccatgat taacaagtaa 1600
cttgttagtc ttacagataa ttcatgcatt aacagtttaa gatttagacc 1650
atggtaatag tagttcttat tctctaaggt tatatcatat gtaatttaaa 1700
agtattttta agacaagttt cctgtatacc tctgaactgt tttgattttg 1750
agttcatcat gatagatctg ctgtttcctt ataaaaggca tttgttgtgt 1800
gagttaatgc aaagtagcca agtccagcta tatagcagct tcagaaacat 1850
acctgaccaa aaaattccca gtaaccaggc atgatcaatt tatagtggtc 1900
gtttacatct aataattatc aggacttttt tcaggagtgg gttataaaaa 1950
cattcaagtt ggtctgacag tattttgtta aggatatttg tttgtatgtt 2000
tattcagtat acttacataa aaattatttc gccatcagcc aaaactcagt 2050
aatcatgaca gctgtctgtt gttttatgaa gtttatttct caagaaaatg 2100
ggaataaatt tgggatttgt tcagcttttt tactaaagat gcctaaagcc 2150
acaggtttta ttgcctaact taagccatga ctttttagata tgagatgacg 2200

P2730P1sequencelisting.txt

ggaagcagga cgaaatatcg gcgtgtggct ggagccttcc cactggaggc 2250
 tgaaagtggc ttgtggtatt ataatgttca gatttcaaga ggaaggtgca 2300
 ggtacacatg agttagagag ctggtgagac agttgggaac tctttgtgct 2350
 tgtgatctac tggacttttt ttttgcagga agtgcattct ctggtccttc 2400
 cctatttttct gttctggatg tcagtgcagt gcactgctac tgttttatcc 2450
 acttggccac agactttttc taacagctgc gtattatttc tatatactaa 2500
 ttgcattggc agcatttgtt ctttgacctt gtatactagc ttgacatagt 2550
 gctgtctctg atttctaggc tagttacttg agatatgaat tttccataga 2600
 atatgcactg atacaacatt accattcttc tatggaaaga aaacttttga 2650
 tgatgaaaca ataaagattt taaatatcta ttttaaaaaa aaaa 2694

<210> 276
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 276
 Met Ala Gly Ile Lys Ala Leu Ile Ser Leu Ser Phe Gly Gly Ala
 1 5 10 15
 Ile Gly Leu Met Phe Leu Met Leu Gly Cys Ala Leu Pro Ile Tyr
 20 25 30
 Asn Lys Tyr Trp Pro Leu Phe Val Leu Phe Phe Tyr Ile Leu Ser
 35 40 45
 Pro Ile Pro Tyr Cys Ile Ala Arg Arg Leu Val Asp Asp Thr Asp
 50 55 60
 Ala Met Ser Asn Ala Cys Lys Glu Leu Ala Ile Phe Leu Thr Thr
 65 70 75
 Gly Ile Val Val Ser Ala Phe Gly Leu Pro Ile Val Phe Ala Arg
 80 85 90
 Ala His Leu Ile Glu Trp Gly Ala Cys Ala Leu Val Leu Thr Gly
 95 100 105
 Asn Thr Val Ile Phe Ala Thr Ile Leu Gly Phe Phe Leu Val Phe
 110 115 120
 Gly Ser Asn Asp Asp Phe Ser Trp Gln Gln Trp
 125 130

<210> 277
 <211> 4104
 <212> DNA
 <213> Homo sapiens

<400> 277
 cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccgcc 50
 cacgcgtccg cccacgcgtc cgcccacgcg tccggtgcaa gctcgcgccg 100
 cacactgcct ggtggaggga aggagcccgg gcgcctctcg ccgctccccg 150
 cgccgcccgtc cgcacctccc caccgcccgc cgcccgccgc ccgcccggcg 200
 caaagcatga gtgagcccgc tctctgcagc tgcccggggc gcgaatggca 250

P2730P1sequencelisting.txt

```

ggctgtttcc gcggagtaaa aggtggcgcc ggtcagtggc cgtttccaat 300
gacggacatt aaccagactg tcagatcctg gggagtcgcg agccccgagt 350
ttggagtttt ttccccccac aacgtcacag tccgaactgc agagggaaag 400
gaaggcggca ggaaggcgaa gctcgggctc cggcacgtag ttgggaaact 450
tgcggttcct agaagtcgcc tccccgcctt gccggccgcc cttgcagccc 500
cgagccgagc agcaaagtga gacattgtgc gcctgccaga tccgccggcc 550
gcggaaccggg gctgcctcgg aaacacagag gggctttctc tcgccctgca 600
tataattagc ctgcacacaa agggagcagc tgaatggagg ttgtcactct 650
ctggaaaagg atttctgacc gagcgcttcc aatggacatt ctccagtctc 700
tctggaaaaga ttctcgctaa tggatttcct gctgctcggc ctctgtctat 750
actggctgct gaggaggccc tcgggggtgg tcttgtgtct gctgggggcc 800
tgctttcaga tgctgcccgc cgccccagc gggtgcccgc agctgtgccg 850
gtgcgagggg cggtgtgtgt actgcgaggc gctcaacctc accgaggcgc 900
cccacaacct gtccggcctg ctgggcttgt ccctgcgcta caacagcctc 950
tcggagctgc gcgccggcca gttcacgggg ttaatgcagc tcacgtggct 1000
ctatctggat cacaatcaca tctgctccgt gcagggggac gcctttcaga 1050
aactgcgccg agttaaggaa ctcacgtga gttccaacca gatcacccaa 1100
ctgcccaca ccaccttcgc gcccatgccc aacctgcgca gcgtggacct 1150
ctcgtacaac aagctgcagg cgctcgcgcc cgacctcttc cacgggctgc 1200
ggaagctcac cacgtgcat atgcgggcca acgccatcca gtttgtgccc 1250
gtgcgcatct tccaggactg ccgcagcctc aagtttctcg acatcggata 1300
caatcagctc aagagtctgg cgcgcaactc tttcgccggc ttgtttaagc 1350
tcaccgagct gcacctcgag cacaacgact tggtaagggt gaacttcgcc 1400
cacttcccgc gcctcatctc cctgcactcg ctctgcctgc ggaggaacaa 1450
ggtagccatt gtggctcagc cgctggactg gggttggaac ctggagaaaa 1500
tggaactgtc gggcaacgag atcgagtaca tggagcccca tgtgttcgag 1550
accgtgccgc acctgcagtc cctgcagctg gactccaacc gcctcaccta 1600
catcgagccc cggatcctca actcttgga gtccttgaca agcatcacc 1650
tgcccgaggaa cctgtgggat tgcgggcgca acgtgtgtgc cctagcctcg 1700
tggtcagca acttccaggg gcgctacgat ggcaacttgc agtgcgccag 1750
cccggagtac gcacagggcg aggacgtcct ggacgccgtg tacgccttcc 1800
acctgtgcga ggatggggcc gagcccacca gcggccacct gctctcggcc 1850
gtcaccaacc gcagtgatct ggggccccct gccagctcgg ccaccacgct 1900
cgcggaaggc ggggaggggc agcacgacgg cacattcgag cctgccaccg 1950

```

P2730P1sequence1isting.txt

```

tggctcttcc aggcggcgag cacgccgaga acgccgtgca gatccacaag 2000
gtggtcacgg gcaccatggc cctcatcttc tccttcctca tcgtggctct 2050
ggtgctctac gtgtcctgga agtgtttccc agccagcctc aggcagctca 2100
gacagtgtct tgtcacgcag cgcaggaagc aaaagcagaa acagaccatg 2150
catcagatgg ctgccatgtc tgcccaggaa tactacgttg attacaaacc 2200
gaaccacatt gagggagccc tgggtgatcat caacgagtat ggctcgtgta 2250
cctgccacca gcagcccgcg aggggaatgcg aggtgtgatt gtcccagtg 2300
ctctcaaccc atgcgctacc aaatacgcct gggcagccgg gacgggccgg 2350
cgggcaccag gctggggctc ctttgtctgt gctctgatat gctccttgac 2400
tgaaacttta aggggatctc tcccagagac ttgacatttt agctttattg 2450
tgtcttaaaa acaaaagcga attaaaacac aacaaaaaac cccacccac 2500
aaccttcagg acagtctatc ttaaatttca tatgagaact ctttcctccc 2550
tttgaagatc tgtccatatt caggaatctg agagtgtaaa aaagggtggc 2600
ataagacaga gagagaataa tcgtgctttg ttttatgcta ctctccac 2650
cctgcccattg attaaacatc atgtatgtag aagatcttaa gtccatacgc 2700
atttcatgaa gaaccattgg aaagaggaat ctgcaatctg ggagcttaag 2750
agcaaatgat gaccatagaa agctatgttc ttactttgtg tgtgtgtctg 2800
tatgtttctg cgttgtgtgt cttttagtagc aagcaaacgt tgtctacaca 2850
aacgggaatt tagctcacat catttcatgc ccctgtgcct ctagctctgg 2900
agattggtgg ggggaggtgg ggggaaacgg caggaataag ggaaagtgg 2950
agttttaact aaggttttgt aacacttgaa atcttttctt tctcaaatta 3000
attatcttta agcttcaaga aacttgctct gacccctcta agcaaactac 3050
taagcattta aaagagaatc taatttttaa aggtgtagca ctttttttt 3100
tattcttccc acagagggtg ctaatctcat tatgctgtgc tatctgaaaa 3150
gaacttaagg ccacaattca cgtctcgtcc tgggcattgt gatggattga 3200
ccctccattt gcagtacctt cccagctgat taaagttcag cagtggatt 3250
gaggtttttc gaatatttat atagaaaaaa agtcttttca catgacaaat 3300
gacacttca caccagtctt agccctagta gttttttagg ttggaccaga 3350
ggaagcaggt taaatgagac ctgtcctctg ctgcactcag aaaaaatagg 3400
cagtcctga tgctcagatc ttagccttga tattaatagt tgagaccacc 3450
taccacaat gcagcctata ctccaagac tacaaagtta ccatcgcaaa 3500
ggaaaggta ttccagtaaa aggaaatagt tttctcaacc atttaaaaat 3550
attcttctga actcatcaaa gtagaagagc cccaacctt ttctctctgc 3600
cttcaagaag gcagacattt ggtatgattt agcatcaaca acacatttat 3650

```


P2730P1sequencelisting.txt

gagtatatgt aagtaatcag aggggcaaatt gccacttggtt attcctccca 3700
 agttttccaa gcaagtacac acagatctct ggtaggatta ggggccactt 3750
 gtgtttccgg cttatttttag tcgacttggtc agcaagtttg atgcctagtc 3800
 tatctgacat ggcccagtag aacagggtcat tgatggatca catgagatgg 3850
 tagaaggaac atcatcacat acccctctca cagagaaaat tatcaaagaa 3900
 ccagaaatta tatctgtttt ggagcaagag tgtcataatg tttcagggtta 3950
 gtcaaaataa acataaatta tctcctctag atgagtggcg atgttggttg 4000
 atttgggtct gccattgaca gaatgtcaaa taaaaaggaa ttagctagaa 4050
 tatgaccatt aaatgtgctt ctgaaatata ttttgagata ggtttagaat 4100
 gtca 4104

<210> 278
 <211> 522
 <212> PRT
 <213> Homo sapiens

<400> 278
 Met Asp Phe Leu Leu Leu Gly Leu Cys Leu Tyr Trp Leu Leu Arg
 1 5 10 15
 Arg Pro Ser Gly Val Val Leu Cys Leu Leu Gly Ala Cys Phe Gln
 20 25 30
 Met Leu Pro Ala Ala Pro Ser Gly Cys Pro Gln Leu Cys Arg Cys
 35 40 45
 Glu Gly Arg Leu Leu Tyr Cys Glu Ala Leu Asn Leu Thr Glu Ala
 50 55 60
 Pro His Asn Leu Ser Gly Leu Leu Gly Leu Ser Leu Arg Tyr Asn
 65 70 75
 Ser Leu Ser Glu Leu Arg Ala Gly Gln Phe Thr Gly Leu Met Gln
 80 85 90
 Leu Thr Trp Leu Tyr Leu Asp His Asn His Ile Cys Ser Val Gln
 95 100 105
 Gly Asp Ala Phe Gln Lys Leu Arg Arg Val Lys Glu Leu Thr Leu
 110 115 120
 Ser Ser Asn Gln Ile Thr Gln Leu Pro Asn Thr Thr Phe Arg Pro
 125 130 135
 Met Pro Asn Leu Arg Ser Val Asp Leu Ser Tyr Asn Lys Leu Gln
 140 145 150
 Ala Leu Ala Pro Asp Leu Phe His Gly Leu Arg Lys Leu Thr Thr
 155 160 165
 Leu His Met Arg Ala Asn Ala Ile Gln Phe Val Pro Val Arg Ile
 170 175 180
 Phe Gln Asp Cys Arg Ser Leu Lys Phe Leu Asp Ile Gly Tyr Asn
 185 190 195
 Gln Leu Lys Ser Leu Ala Arg Asn Ser Phe Ala Gly Leu Phe Lys
 200 205 210

P2730P1sequencelisting.txt

Leu Thr Glu Leu	His 215	Leu Glu His Asn	Asp 220	Leu Val Lys Val	Asn 225
Phe Ala His Phe	Pro 230	Arg Leu Ile Ser	Leu 235	His Ser Leu Cys	Leu 240
Arg Arg Asn Lys	Val 245	Ala Ile Val Val	Ser 250	Ser Leu Asp Trp	Val 255
Trp Asn Leu Glu	Lys 260	Met Asp Leu Ser	Gly 265	Asn Glu Ile Glu	Tyr 270
Met Glu Pro His	Val 275	Phe Glu Thr Val	Pro 280	His Leu Gln Ser	Leu 285
Gln Leu Asp Ser	Asn 290	Arg Leu Thr Tyr	Ile 295	Glu Pro Arg Ile	Leu 300
Asn Ser Trp Lys	Ser 305	Leu Thr Ser Ile	Thr 310	Leu Ala Gly Asn	Leu 315
Trp Asp Cys Gly	Arg 320	Asn Val Cys Ala	Leu 325	Ala Ser Trp Leu	Ser 330
Asn Phe Gln Gly	Arg 335	Tyr Asp Gly Asn	Leu 340	Gln Cys Ala Ser	Pro 345
Glu Tyr Ala Gln	Gly 350	Glu Asp Val Leu	Asp 355	Ala Val Tyr Ala	Phe 360
His Leu Cys Glu	Asp 365	Gly Ala Glu Pro	Thr 370	Ser Gly His Leu	Leu 375
Ser Ala Val Thr	Asn 380	Arg Ser Asp Leu	Gly 385	Pro Pro Ala Ser	Ser 390
Ala Thr Thr Leu	Ala 395	Asp Gly Gly Glu	Gly 400	Gln His Asp Gly	Thr 405
Phe Glu Pro Ala	Thr 410	Val Ala Leu Pro	Gly 415	Gly Glu His Ala	Glu 420
Asn Ala Val Gln	Ile 425	His Lys Val Val	Thr 430	Gly Thr Met Ala	Leu 435
Ile Phe Ser Phe	Leu 440	Ile Val Val Leu	Val 445	Leu Tyr Val Ser	Trp 450
Lys Cys Phe Pro	Ala 455	Ser Leu Arg Gln	Leu 460	Arg Gln Cys Phe	Val 465
Thr Gln Arg Arg	Lys 470	Gln Lys Gln Lys	Gln 475	Thr Met His Gln	Met 480
Ala Ala Met Ser	Ala 485	Gln Glu Tyr Tyr	Val 490	Asp Tyr Lys Pro	Asn 495
His Ile Glu Gly	Ala 500	Leu Val Ile Ile	Asn 505	Glu Tyr Gly Ser	Cys 510
Thr Cys His Gln	Gln 515	Pro Ala Arg Glu	Cys 520	Glu Val	

<210> 279

<211> 46

<212> DNA

<213> Artificial Sequence

P2730P1sequencelisting.txt

<220>

<223> Synthetic oligonucleotide probe

<400> 279

tccgtgcagg gggacgcctt tcagaaactg cgccgagtta aggaac 46

<210> 280

<211> 709

<212> DNA

<213> Homo sapiens

<400> 280

gtgcaaggag ccgaggcgag atgggcgctc tgggccgggt cctgctgtgg 50
 ctgcagctct gcgcactgac ccaggcggtc tccaaactct gggccccaa 100
 cacggacttc gacgtcgag ccaactggag ccagaaccgg accccgtgag 150
 ccggcggcgc cgttgagttc ccggcggaca agatgggtgc agtcctggtg 200
 caagaaggtc acgccgtctc agacatgctc ctgccgctgg atggggaact 250
 cgtcctggct tcaggagccg gattcggcgt ctcagacgtg ggctcgcacc 300
 tggactgtgg cgcgggcgaa cctgccgtct tccgcgactc tgaccgcttc 350
 tcctggcatg acccgacact gtggcgctct ggggacgagg cacctggcct 400
 cttcttcgtg gacgccgagc gcgtgccctg ccgccacgac gacgtcttct 450
 ttccgcctag tgcctccttc cgcgtggggc tcggccctgg cgctagcccc 500
 gtgcgtgtcc gcagcatctc ggctctgggc cggacgttca cgcgcgacga 550
 ggacctggct gttttcctgg cgtcccgcgc gggccgccta cgcttcacg 600
 ggccgggcgc gctgagcgtg ggccccgagg actgcgcgga cccgtcgggc 650
 tgcgtctgag gcaacgcgga ggcgagccg tggatctgag cggccctgct 700
 ccagcccct 709

<210> 281

<211> 229

<212> PRT

<213> Homo sapiens

<400> 281

Met Gly Val Leu Gly Arg Val Leu Leu Trp Leu Gln Leu Cys Ala 15
 1 5 10
 Leu Thr Gln Ala Val Ser Lys Leu Trp Val Pro Asn Thr Asp Phe 30
 20 25 30
 Asp Val Ala Ala Asn Trp Ser Gln Asn Arg Thr Pro Cys Ala Gly 45
 35 40 45
 Gly Ala Val Glu Phe Pro Ala Asp Lys Met Val Ser Val Leu Val 60
 50 55 60
 Gln Glu Gly His Ala Val Ser Asp Met Leu Leu Pro Leu Asp Gly 75
 65 70 75
 Glu Leu Val Leu Ala Ser Gly Ala Gly Phe Gly Val Ser Asp Val 90
 80 85 90
 Gly Ser His Leu Asp Cys Gly Ala Gly Glu Pro Ala Val Phe Arg
 Page 231

P2730P1sequencelisting.txt

95	100	105
Asp Ser Asp Arg Phe Ser Trp His Asp Pro His Leu Trp Arg Ser	110 115	120
Gly Asp Glu Ala Pro Gly Leu Phe Phe Val Asp Ala Glu Arg Val	125 130	135
Pro Cys Arg His Asp Asp Val Phe Phe Pro Pro Ser Ala Ser Phe	140 145	150
Arg Val Gly Leu Gly Pro Gly Ala Ser Pro Val Arg Val Arg Ser	155 160	165
Ile Ser Ala Leu Gly Arg Thr Phe Thr Arg Asp Glu Asp Leu Ala	170 175	180
Val Phe Leu Ala Ser Arg Ala Gly Arg Leu Arg Phe His Gly Pro	185 190	195
Gly Ala Leu Ser Val Gly Pro Glu Asp Cys Ala Asp Pro Ser Gly	200 205	210
Cys Val Cys Gly Asn Ala Glu Ala Gln Pro Trp Ile Cys Ala Ala	215 220	225
Leu Leu Gln Pro		

<210> 282
 <211> 644
 <212> DNA
 <213> Homo sapiens

<400> 282
 atcgcatcaa ttgggagtag catcttcctc atgggaccag tgaaacagct 50
 gaagcgaatg tttgagccta ctcgtttgat tgcaactatc atggtgctgt 100
 tgtgttttgc acttaccctg tgttctgcct tttggtggca taacaaggga 150
 cttgcactta tcttctgcat tttgcagtct ttggcattga cgtggtacag 200
 cctttccttc ataccatttg caagggatgc tgtgaagaag tgttttgccg 250
 tgtgtcttgc ataattcatg gccagtttta tgaagctttg gaaggcacta 300
 tggacagaag ctggtggaca gttttgtaac tatcttcgaa acctctgtct 350
 tacagacatg tgccttttat cttgcagcaa tgtgttgctt gtgattcgaa 400
 catttgaggg ttacttttgg aagcaacaat acattctcga acctgaatgt 450
 cagtagcaca ggatgagaag tgggttctgt atcttgtgga gtggaatctt 500
 cctcatgtac ctgtttcctc tctggatgtt gtccactga attcccatga 550
 atacaaacct attcagcaac agcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 644

<210> 283
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 283
 Met Gly Pro Val Lys Gln Leu Lys Arg Met Phe Glu Pro Thr Arg
 Page 232

P2730P1sequencelisting.txt

1	5	10	15
Leu Ile Ala Thr	Ile Met Val Leu Leu Cys Phe Ala Leu Thr	Leu	
	20	25	30
Cys Ser Ala Phe Trp Trp His Asn Lys Gly Leu Ala Leu Ile Phe			
	35	40	45
Cys Ile Leu Gln Ser Leu Ala Leu Thr Trp Tyr Ser Leu Ser Phe			
	50	55	60
Ile Pro Phe Ala Arg Asp Ala Val Lys Lys Cys Phe Ala Val Cys			
	65	70	75
Leu Ala			

<210> 284
 <211> 2623
 <212> DNA
 <213> Homo sapiens

<400> 284
 ttgagcgcag gtgagctcct gcgcgttccg ggggcgttcc tccagtcacc 50
 ctcccgccgt taccgcggc gcgcccagg gagtctctc cagaccctcc 100
 ctcccgttgc tccaaactaa tacggactga acggatcgct gcgaggggtgg 150
 gagagaaaat tagggggaga aaggacagag agagcaacta ccatccatag 200
 ccagatagat tatcttacac tgaactgatc aagtactttg aaaatgactt 250
 cgaaatttat cttggtgtcc ttcatacttg ctgcactgag tctttcaacc 300
 accttttctc tccaaactaga ccagcaaaag gttctactag tttcttttga 350
 tggattccgt tgggattact tatataaagt tccaacgccc catthttcatt 400
 atattatgaa atatggtggt cacgtgaagc aagttactaa tgthttttatt 450
 acaaaaacct accctaacca ttatactttg gtaactggcc tctttgcaga 500
 gaatcatggg attgttgcaa atgatatggt tgatcctatt cggaacaaat 550
 ctttctctct ggatcacatg aatatttatg attccaagtt ttgggaagaa 600
 gcgacaccaa tatggatcac aaaccagagg gcaggacata ctagtgggtgc 650
 agccatgtgg cccggaacag atgtaaaaat acataagcgc tttcctactc 700
 attacatgcc ttacaatgag tcagtttcat ttgaagatag agttgccaaa 750
 attgttgaat ggthttacgtc aaaagagccc ataaatcttg gtcttctcta 800
 ttgggaagac cctgatgaca tgggccacca tttgggacct gacagtccgc 850
 tcatggggcc tgtcatttca gatattgaca agaagttagg atatctcata 900
 caaatgctga aaaaggcaaa gttgtggaac actctgaacc taatcatcac 950
 aagtgatcat ggaatgacgc agtgctctga ggaaagggtta atagaacttg 1000
 accagtacct ggataaagac cactataccc tgattgatca atctccagta 1050
 gcagccatct tgccaaaaga aggtaaattt gatgaagtct atgaagcact 1100
 aactcacgct catcctaata ttactgttta caaaaaagaa gacgttccag 1150

P2730P1sequencelisting.txt

```

aaaggtggca ttacaaatac aacagtcgaa ttcaaccaat catagcagtg 1200
gctgatgaag ggtggcacat ttacagaat aagtcagatg actttctgtt 1250
aggcaaccac ggttacgata atgcgtttagc agatatgcat ccaatatttt 1300
tagcccatgg tcctgccttc agaaagaatt tctcaaaaga agccatgaac 1350
tccacagatt tgtaccact actatgccac ctcctcaata tcaactgccat 1400
gccacacaat ggatcattct ggaatgtcca ggatctgctc aattcagcaa 1450
tgccaagggg ggtcccttat acacagagta ctatactcct ccctggtagt 1500
gttaaaccag cagaatatga ccaagagggg tcataccctt atttcatagg 1550
ggtctctctt ggcagcatta tagtgattgt attttttgta attttcatta 1600
agcatttaat tcacagtcaa atacctgcct tacaagatat gcatgctgaa 1650
atagctcaac cattattaca agcctaattg tactttgaag tggatttgca 1700
tattgaagtg gagattccat aattatgtca gtgtttaaag gtttcaaatt 1750
ctgggaaacc agttccaaac atctgcagaa accattaagc agttacatat 1800
ttaggtatac acacacacac acacacacac atacacacac acggaccaa 1850
atacttacac ctgcaaagga ataaagatgt gagagtatgt ctccattggt 1900
cactgtagca tagggataga taagatcctg ctttatttgg acttggcgca 1950
gataatgtat atatttagca actttgcact atgtaaagta cttatatat 2000
tgcactttaa atttctctcc tgatgggtac tttaatttga aatgcacttt 2050
atggacagtt atgtcttata acttgattga aaatgacaac tttttgcacc 2100
catgtcacag aatacttgtt acgcattgtt caaactgaag gaaatttcta 2150
ataatcccga ataatgaaca tagaaatcta tctccataaa ttgagagaag 2200
aagaaggtga taagtgttga aaattaaatg tgataacctt tgaaccttga 2250
attttggaaga tgtattccca acagcagaat gcaactgtgg gcatttcttg 2300
tcttatttct ttccagagaa cgtgggtttc atttattttt ccctcaaaag 2350
agagtcaaat actgacagat tcgttctaaa tatattgttt ctgtcataaa 2400
attattgtga tttcctgatg agtcatatta ctgtgatttt cataataatg 2450
aagacaccat gaatatactt ttcttctata tagttcagca atggcctgaa 2500
tagaagcaac caggcaccat ctcagcaatg ttttctcttg tttgtaatta 2550
tttgctcctt tgaaaattaa atcactatta attacattaa aaatcaaatt 2600
ggataaaaaa aaaaaaaaaa aaa 2623

```

<210> 285

<211> 477

<212> PRT

<213> Homo sapiens

<400> 285

Met Thr Ser Lys Phe Ile Leu Val Ser Phe Ile Leu Ala Ala Leu

P2730P1sequencelisting.txt

1	5	10	15
Ser Leu Ser Thr	Thr Phe Ser Leu Gln	Leu Asp Gln Gln Lys	Val 30
Leu Leu Val Ser	Phe Asp Gly Phe Arg Trp	Asp Tyr Leu Tyr Lys	45
Val Pro Thr Pro	His Phe His Tyr Ile Met	Lys Tyr Gly Val His	60
Val Lys Gln Val	Thr Asn Val Phe Ile Thr	Lys Thr Tyr Pro Asn	75
His Tyr Thr Leu	Val Thr Gly Leu Phe Ala	Glu Asn His Gly Ile	90
Val Ala Asn Asp	Met Phe Asp Pro Ile Arg	Asn Lys Ser Phe Ser	105
Leu Asp His Met	Asn Ile Tyr Asp Ser Lys	Phe Trp Glu Glu Ala	120
Thr Pro Ile Trp	Ile Thr Asn Gln Arg Ala	Gly His Thr Ser Gly	135
Ala Ala Met Trp	Pro Gly Thr Asp Val Lys	Ile His Lys Arg Phe	150
Pro Thr His Tyr	Met Pro Tyr Asn Glu Ser	Val Ser Phe Glu Asp	165
Arg Val Ala Lys	Ile Val Glu Trp Phe Thr	Ser Lys Glu Pro Ile	180
Asn Leu Gly Leu	Leu Tyr Trp Glu Asp Pro	Asp Asp Met Gly His	195
His Leu Gly Pro	Asp Ser Pro Leu Met Gly	Pro Val Ile Ser Asp	210
Ile Asp Lys Lys	Leu Gly Tyr Leu Ile Gln	Met Leu Lys Lys Ala	225
Lys Leu Trp Asn	Thr Leu Asn Leu Ile Ile	Thr Ser Asp His Gly	240
Met Thr Gln Cys	Ser Glu Glu Arg Leu Ile	Glu Leu Asp Gln Tyr	255
Leu Asp Lys Asp	His Tyr Thr Leu Ile Asp	Gln Ser Pro Val Ala	270
Ala Ile Leu Pro	Lys Glu Gly Lys Phe Asp	Glu Val Tyr Glu Ala	285
Leu Thr His Ala	His Pro Asn Leu Thr Val	Tyr Lys Lys Glu Asp	300
Val Pro Glu Arg	Trp His Tyr Lys Tyr Asn	Ser Arg Ile Gln Pro	315
Ile Ile Ala Val	Ala Asp Glu Gly Trp His	Ile Leu Gln Asn Lys	330
Ser Asp Asp Phe	Leu Leu Gly Asn His Gly	Tyr Asp Asn Ala Leu	345

P2730P1sequencelisting.txt

Ala	Asp	Met	His	Pro	Ile	Phe	Leu	Ala	His	Gly	Pro	Ala	Phe	Arg
				350					355					360
Lys	Asn	Phe	Ser	Lys	Glu	Ala	Met	Asn	Ser	Thr	Asp	Leu	Tyr	Pro
				365					370					375
Leu	Leu	Cys	His	Leu	Leu	Asn	Ile	Thr	Ala	Met	Pro	His	Asn	Gly
				380					385					390
Ser	Phe	Trp	Asn	Val	Gln	Asp	Leu	Leu	Asn	Ser	Ala	Met	Pro	Arg
				395					400					405
Val	Val	Pro	Tyr	Thr	Gln	Ser	Thr	Ile	Leu	Leu	Pro	Gly	Ser	Val
				410					415					420
Lys	Pro	Ala	Glu	Tyr	Asp	Gln	Glu	Gly	Ser	Tyr	Pro	Tyr	Phe	Ile
				425					430					435
Gly	Val	Ser	Leu	Gly	Ser	Ile	Ile	Val	Ile	Val	Phe	Phe	Val	Ile
				440					445					450
Phe	Ile	Lys	His	Leu	Ile	His	Ser	Gln	Ile	Pro	Ala	Leu	Gln	Asp
				455					460					465
Met	His	Ala	Glu	Ile	Ala	Gln	Pro	Leu	Leu	Gln	Ala			
				470					475					

<210> 286
 <211> 1337
 <212> DNA
 <213> Homo sapiens

<400> 286
 ggatttttgt gatccgcgat tcgctccac gggcgggacc tttgtaactg 50
 cgggaggccc aggacaggcc caccctgcgg ggcgggaggc agccggggtg 100
 agggaggtga agaaaccaag acgcagagag gccaagcccc ttgccttggg 150
 tcacacagcc aaaggaggca gagccagaac tcacaaccag atccagaggc 200
 aacagggaca tggccacctg ggacgaaaag gcagtcaccc gcagggccaa 250
 ggtggctccc gctgagagga tgagcaagtt ctttaaggcac ttcacggtcg 300
 tgggagacga ctaccatgcc tggaacatca actacaagaa atgggagaat 350
 gaagaggagg aggaggagga ggagcagcca ccaccacac cagtctcagg 400
 cgaggaaggc agagctgcag cccctgacgt tgcccctgcc cctggccccg 450
 caccagggc ccccttgac ttcaggggca tgttgaggaa actgttcagc 500
 tcccacaggt ttcaggatcat catcatctgc ttggtggttc tggatgccct 550
 cctggtgctt gctgagctca tcctggacct gaagatcatc cagcccgaca 600
 agaataacta tgctgccatg gtattccact acatgagcat caccatcttg 650
 gtctttttta tgatggagat catctttaa ttatttgtct tccgcctgag 700
 ttctttcacc acaagtttga gatcctggat gcccgctcgtg gtggtggtct 750
 cattcatcct ggacattgtc ctctgttcc aggagcacca gtttgaggct 800
 ctgggcctgc tgattctgct ccggctgtgg cgggtggccc ggatcatcaa 850
 tgggattatc atctcagtta agacacgttc agaacggcaa ctcttaaggt 900

P2730P1sequencelisting.txt

taaaacagat gaatgtacaa ttggccgccca agattcaaca ccttgagttc 950
 agctgctctg agaagccctt ggactgatga gtttgctgta tcaacctgta 1000
 aggagaagct ctctccggat ggctatggga atgaaagaat ccgacttcta 1050
 ctctcacaca gccaccgtga aagtcctgga gtaaaatgtg ctgtgtacag 1100
 aagagagaga aggaagcagg ctggcatggt cactgggctg gtgttacgac 1150
 agagaacctg acagtcactg gccagttatc acttcagatt acaaatacaca 1200
 cagagcatct gcctgttttc aatcacaga gaacaaaacc aaaatctata 1250
 aagatattct gaaaatatga cagaatttga caaataaaag cataaacgtg 1300
 taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1337

<210> 287

<211> 255

<212> PRT

<213> Homo sapiens

<400> 287

Met	Ala	Thr	Trp	Asp	Glu	Lys	Ala	Val	Thr	Arg	Arg	Ala	Lys	Val	1	5	10	15
Ala	Pro	Ala	Glu	Arg	Met	Ser	Lys	Phe	Leu	Arg	His	Phe	Thr	Val	20	25	30	
Val	Gly	Asp	Asp	Tyr	His	Ala	Trp	Asn	Ile	Asn	Tyr	Lys	Lys	Trp	35	40	45	
Glu	Asn	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Gln	Pro	Pro	Pro	Thr	50	55	60	
Pro	Val	Ser	Gly	Glu	Glu	Gly	Arg	Ala	Ala	Ala	Pro	Asp	Val	Ala	65	70	75	
Pro	Ala	Pro	Gly	Pro	Ala	Pro	Arg	Ala	Pro	Leu	Asp	Phe	Arg	Gly	80	85	90	
Met	Leu	Arg	Lys	Leu	Phe	Ser	Ser	His	Arg	Phe	Gln	Val	Ile	Ile	95	100	105	
Ile	Cys	Leu	Val	Val	Leu	Asp	Ala	Leu	Leu	Val	Leu	Ala	Glu	Leu	110	115	120	
Ile	Leu	Asp	Leu	Lys	Ile	Ile	Gln	Pro	Asp	Lys	Asn	Asn	Tyr	Ala	125	130	135	
Ala	Met	Val	Phe	His	Tyr	Met	Ser	Ile	Thr	Ile	Leu	Val	Phe	Phe	140	145	150	
Met	Met	Glu	Ile	Ile	Phe	Lys	Leu	Phe	Val	Phe	Arg	Leu	Ser	Ser	155	160	165	
Phe	Thr	Thr	Ser	Leu	Arg	Ser	Trp	Met	Pro	Val	Val	Val	Val	Val	170	175	180	
Ser	Phe	Ile	Leu	Asp	Ile	Val	Leu	Leu	Phe	Gln	Glu	His	Gln	Phe	185	190	195	
Glu	Ala	Leu	Gly	Leu	Leu	Ile	Leu	Leu	Arg	Leu	Trp	Arg	Val	Ala	200	205	210	
Arg	Ile	Ile	Asn	Gly	Ile	Ile	Ile	Ser	Val	Lys	Thr	Arg	Ser	Glu				

215

220

225

Arg	Gln	Leu	Leu	Arg	Leu	Lys	Gln	Met	Asn	Val	Gln	Leu	Ala	Ala
				230					235					240
Lys	Ile	Gln	His	Leu	Glu	Phe	Ser	Cys	Ser	Glu	Lys	Pro	Leu	Asp
				245					250					255

<210> 288

<211> 3334

<212> DNA

<213> Homo sapiens

<400> 288

```

cggctcgagc tcgagccgaa tcggctcgag gggcagtgga gcacccagca 50
ggccgccaac atgctctgtc tgtgcctgta cgtgccggtc atcggggaag 100
cccagaccga gttccagtac tttgagtcga aggggctccc tgccgagctg 150
aagtccattt tcaagctcag tgtcttcac ccctcccagg aattctccac 200
ctaccgccag tggaagcaga aaattgtaca agctggagat aaggaccttg 250
atgggcagct agactttgaa gaatttgtcc attatctcca agatcatgag 300
aagaagctga ggctggtgtt taagattttg gacaaaaaga atgatggacg 350
cattgacgcg caggagatca tgcagtccct gcgggacttg ggagtcaaga 400
tatctgaaca gcaggcagaa aaaattctca agagcatgga taaaaacggc 450
acgatgacca tcgactggaa cgagtggaga gactaccacc tcctccaccc 500
cgtggaaaac atccccgaga tcactctcta ctggaagcat tccacgatct 550
ttgatgtggg tgagaatcta acggtccccg atgagttcac agtggaggag 600
aggcagacgg ggatgtggtg gagacacctg gtggcaggag gtggggcagg 650
ggccgtatcc agaacctgca cggccccctt ggacaggctc aagggtgctca 700
tgcaggcca tgcctcccg agcaacaaca tgggcatcgt tgggtggcttc 750
actcagatga ttcgagaagg aggggcccagg tcactctggc ggggcaatgg 800
catcaacgtc ctcaaaattg cccccgaatc agccatcaaa ttcatggcct 850
atgagcagat caagcgcctt gttggtagt accaggagac tctgaggatt 900
cacgagaggg ttgtggcagg gtccttgga ggggcatcg cccagagcag 950
catctacca atggagggtcc tgaagaccg gatggcgctg cggaagacag 1000
gccagtactc aggaatgctg gactgcgcca ggaggatcct ggccagagag 1050
ggggtggccg ccttctacaa aggctatgtc cccaacatgc tgggcatcat 1100
cccctatgcc ggcacgacc ttgcagtcta cgagacgctc aagaatgcct 1150
ggctgcagca ctatgcagtg aacagcgcg accccggcgt gtttgtgctc 1200
ctggcctgtg gcaccatgtc cagtacctgt ggccagctgg ccagctaccc 1250
cctggcccta gtcaggaccc ggatgcaggc gcaagcctct attgagggcg 1300
ctccggaggt gaccatgagc agcctcttca aacatatacct gcggaccgag 1350

```

P2730P1sequencelisting.txt

ggggccttcg ggctgtacag ggggctggcc cccaacttca tgaaggatcat 1400
 cccagctgtg agcatcagct acgtggtcta cgagaacctg aagatcaccc 1450
 tgggcgtgca gtcgcggtga cggggggagg gccgcccggc agtggactcg 1500
 ctgacacctg gccgcagcct ggggtgtgca gccatctcat tctgtgaatg 1550
 tgccaacact aagctgtctc gagccaagct gtgaaaacct tagacgcacc 1600
 cgcaggaggag gtggggagag ctggcaggcc cagggttgtt cctgctgacc 1650
 ccagcagacc ctctgtttgg ttccagcgaa gaccacaggc attccttagg 1700
 gtccagggtc agcaggctcc gggctcacat gtgtaaggac aggacatttt 1750
 ctgcagtgcc tgccaatagt gagcttgagg cctggaggcc ggcttagttc 1800
 ttccatttca cccttgacgc cagctgttgg ccacggcccc tgccctctgg 1850
 tctgccgtgc atctccctgt gccctcttgc tgcctgcctg tctgctgagg 1900
 taagggtgga ggagggttac agcccacatc ccaccccctc gtccaatccc 1950
 ataatccatg atgaaagggt aggtcacgtg gcctcccagg cctgacttcc 2000
 caacctacag cattgacgcc aacttggtcg tgaaggaaga ggaaaggatc 2050
 tggccttgtg gtcactggca tctgagccct gctgatggct ggggtctctg 2100
 ggcattgttg ggagtgcagg gggctcgggc tgcctggcct ggctgcacag 2150
 aaggcaagtg ctggggctca tgggtgctctg agctggcctg gaccctgtca 2200
 ggatggggcc cacctcagaa ccaaactcac tgtccccact gtggcatgag 2250
 ggcagtggag caccatgttt gagggcgaa ggcagagcgt ttgtgtgttc 2300
 tggggaggga aggaaaagggt gttggaggcc ttaattatgg actgttggga 2350
 aaagggtttt gtccagaagg acaagccgga caaatgagcg acttctgtgc 2400
 ttccagagga agacgaggga gcaggagctt ggctgactgc tcagagtctg 2450
 ttctgacgcc ctgggggttc ctgtccaacc ccagcagggg cgcagcgga 2500
 ccagccccac attccacttg tgtcactgct tggaacctat ttattttgta 2550
 ttattttgaa cagagttatg tcctaactat ttttatagat ttgtttaatt 2600
 aatagcttgt ctttttcaag ttcatttttt attcatattt atgttcatgg 2650
 ttgattgtac cttcccaagc ccgcccagtg ggatgggagg aggaggagaa 2700
 ggggggcctt gggccgctgc agtcacatct gtccagagaa attccttttg 2750
 ggactggagg cagaaaagcg gccagaaggc agcagccctg gtccttttcc 2800
 tttggcaggt tggggaaggg cttgccccca gccttaggat ttcagggttt 2850
 gactgggggc gtggagagag agggaggaac ctcaataacc ttgaagggtg 2900
 aatccagtta tttcctgcgc tgcgagggtt tctttatttc actcttttct 2950
 gaatgtcaag gcagtgaggt gcctctcact gtgaatttgt ggtgggcggg 3000
 ggctggagga gaggggtggg ggctggctcc gtccctcca gccttctgct 3050

P2730P1sequencelisting.txt

gcccttgctt aacaatgccg gccactggc gacctcacgg ttgcacttcc 3100
 attccaccag aatgacctga tgaggaaatc ttcaatagga tgcaaagatc 3150
 aatgcaaaaa ttgttatata tgaacatata actggagtcg tcaaaaagca 3200
 aattaagaaa gaattggacg ttagaagttg tcatttaaag cagccttcta 3250
 ataaagttgt ttcaaagctg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 3334

<210> 289
 <211> 469
 <212> PRT
 <213> Homo sapiens

<400> 289
 Met Leu Cys Leu Cys Leu Tyr Val Pro Val Ile Gly Glu Ala Gln
 1 5 10 15
 Thr Glu Phe Gln Tyr Phe Glu Ser Lys Gly Leu Pro Ala Glu Leu
 20 25 30
 Lys Ser Ile Phe Lys Leu Ser Val Phe Ile Pro Ser Gln Glu Phe
 35 40 45
 Ser Thr Tyr Arg Gln Trp Lys Gln Lys Ile Val Gln Ala Gly Asp
 50 55 60
 Lys Asp Leu Asp Gly Gln Leu Asp Phe Glu Glu Phe Val His Tyr
 65 70 75
 Leu Gln Asp His Glu Lys Lys Leu Arg Leu Val Phe Lys Ile Leu
 80 85 90
 Asp Lys Lys Asn Asp Gly Arg Ile Asp Ala Gln Glu Ile Met Gln
 95 100 105
 Ser Leu Arg Asp Leu Gly Val Lys Ile Ser Glu Gln Gln Ala Glu
 110 115 120
 Lys Ile Leu Lys Ser Met Asp Lys Asn Gly Thr Met Thr Ile Asp
 125 130 135
 Trp Asn Glu Trp Arg Asp Tyr His Leu Leu His Pro Val Glu Asn
 140 145 150
 Ile Pro Glu Ile Ile Leu Tyr Trp Lys His Ser Thr Ile Phe Asp
 155 160 165
 Val Gly Glu Asn Leu Thr Val Pro Asp Glu Phe Thr Val Glu Glu
 170 175 180
 Arg Gln Thr Gly Met Trp Trp Arg His Leu Val Ala Gly Gly Gly
 185 190 195
 Ala Gly Ala Val Ser Arg Thr Cys Thr Ala Pro Leu Asp Arg Leu
 200 205 210
 Lys Val Leu Met Gln Val His Ala Ser Arg Ser Asn Asn Met Gly
 215 220 225
 Ile Val Gly Gly Phe Thr Gln Met Ile Arg Glu Gly Gly Ala Arg
 230 235 240
 Ser Leu Trp Arg Gly Asn Gly Ile Asn Val Leu Lys Ile Ala Pro
 245 250 255

P2730P1sequencelisting.txt

Glu Ser Ala Ile	Lys 260	Phe Met Ala Tyr	Glu Gln Ile Lys Arg	Leu 270
val Gly Ser Asp	Gln 275	Glu Thr Leu Arg	Ile His Glu Arg	Leu val 285
Ala Gly Ser Leu	Ala 290	Gly Ala Ile Ala	Gln Ser Ser Ile Tyr	Pro 300
Met Glu Val Leu	Lys 305	Thr Arg Met Ala	Leu Arg Lys Thr Gly	Gln 315
Tyr Ser Gly Met	Leu 320	Asp Cys Ala Arg	Arg Ile Leu Ala Arg	Glu 330
Gly Val Ala Ala	Phe 335	Tyr Lys Gly Tyr	Val Pro Asn Met Leu	Gly 345
Ile Ile Pro Tyr	Ala 350	Gly Ile Asp Leu	Ala Val Tyr Glu Thr	Leu 360
Lys Asn Ala Trp	Leu 365	Gln His Tyr Ala	Val Asn Ser Ala Asp	Pro 375
Gly Val Phe Val	Leu 380	Leu Ala Cys Gly	Thr Met Ser Ser Thr	Cys 390
Gly Gln Leu Ala	Ser 395	Tyr Pro Leu Ala	Leu Val Arg Thr Arg	Met 405
Gln Ala Gln Ala	Ser 410	Ile Glu Gly Ala	Pro Glu Val Thr Met	Ser 420
Ser Leu Phe Lys	His 425	Ile Leu Arg Thr	Glu Gly Ala Phe Gly	Leu 435
Tyr Arg Gly Leu	Ala 440	Pro Asn Phe Met	Lys Val Ile Pro Ala	Val 450
Ser Ile Ser Tyr	Val 455	Val Tyr Glu Asn	Leu Lys Ile Thr Leu	Gly 465
val Gln Ser Arg				

<210> 290
 <211> 1658
 <212> DNA
 <213> Homo sapiens

<400> 290
 ggaaggcagc ggcagctcca ctcagccagt acccagatac gctgggaacc 50
 ttccccagcc atggcttccc tggggcagat cctcttctgg agcataatta 100
 gcatcatcat tattctggct ggagcaattg cactcatcat tggctttggt 150
 atttcaggga gacactccat cacagtcact actgtcgcct cagctgggaa 200
 cattggggag gatggaatcc tgagctgcac ttttgaacct gacatcaaac 250
 tttctgatat cgtgatacaa tggctgaagg aaggtgtttt aggcttggtc 300
 catgagttca aagaaggcaa agatgagctg tcggagcagg atgaaatggt 350
 cagaggccgg acagcagtgt ttgctgatca agtgatagtt ggcaatgcct 400

P2730P1sequencelisting.txt

ctttgctggct gaaaaacgtg caactcacag atgctggcac ctacaaatgt 450
tatatcatca cttctaaagg caaggggaat gctaaccttg agtataaaac 500
tggagccttc agcatgccgg aagtgaatgt ggactataat gccagctcag 550
agaccttgcg gtgtgaggct ccccgatggt tccccagcc cacagtggtc 600
tgggcatccc aagttgacca gggagccaac ttctcggag tctccaatac 650
cagctttgag ctgaactctg agaatgtgac catgaagggt gtgtctgtgc 700
tctacaatgt tacgatcaac aacacatact cctgtatgat tgaaaatgac 750
attgccaaag caacagggga tatcaaagt acagaatcgg agatcaaaag 800
gctggagtcac ctacagctgc taaactcaaa ggcttctctg tgtgtctctt 850
ctttctttgc catcagctgg gcacttctgc ctctcagccc ttacctgatg 900
ctaaaataat gtgccttggc cacaaaaaag catgcaaagt cattgtttaca 950
acagggatct acagaactat ttcaccacca gatatgacct agttttatat 1000
ttctgggagg aaatgaattc atatctagaa gtctggagtg agcaaacaag 1050
agcaagaaac aaaaagaagc caaaagcaga aggctccaat atgaacaaga 1100
taaattctatc ttcaaagaca tattagaagt tgggaaaata attcatgtga 1150
actagacaag tgtgttaaga gtgataagta aaatgcacgt ggagacaagt 1200
gcatccccag atctcagga cctccccctg cctgtcacct ggggagtgag 1250
aggacaggat agtgcattgt ctttgtctct gaatttttag ttatatgtgc 1300
tgtaatgttg ctctgaggaa gcccctggaa agtctatccc aacatatcca 1350
catcttatat tccacaaatt aagctgtagt atgtacccta agacgctgct 1400
aattgactgc cacttcgcaa ctgaggggag gctgcatttt agtaatgggt 1450
caaatgattc actttttatg atgcttcaa aggtgccttg gcttctcttc 1500
ccaactgaca aatgccaaag ttgagaaaaa tgatcataat tttagcataa 1550
acagagcagt cggggacacc gattttataa ataaactgag caccttcttt 1600
ttaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1650
aaaaaaaa 1658

<210> 291
<211> 282
<212> PRT
<213> Homo sapiens

<400> 291
Met Ala Ser Leu Gly Gln Ile Leu Phe Trp Ser Ile Ile Ser Ile
1 5 10 15
Ile Ile Ile Leu Ala Gly Ala Ile Ala Leu Ile Ile Gly Phe Gly
20 25 30
Ile Ser Gly Arg His Ser Ile Thr Val Thr Thr Val Ala Ser Ala
35 40 45

Gly Asn Ile Gly Glu Asp Gly Ile Leu Ser Cys Thr Phe Glu Pro
Page 242

P2730P1sequencelisting.txt

50	55	60
Asp Ile Lys Leu Ser 65	Asp Ile Val Ile Gln Trp Leu Lys Glu 70	Gly 75
Val Leu Gly Leu Val 80	His Glu Phe Lys Glu 85	Gly Lys Asp Glu Leu 90
Ser Glu Gln Asp Glu 95	Met Phe Arg Gly Arg 100	Thr Ala Val Phe Ala 105
Asp Gln Val Ile Val 110	Gly Asn Ala Ser Leu 115	Arg Leu Lys Asn Val 120
Gln Leu Thr Asp Ala 125	Gly Thr Tyr Lys Cys 130	Tyr Ile Ile Thr Ser 135
Lys Gly Lys Gly Asn 140	Ala Asn Leu Glu Tyr 145	Lys Thr Gly Ala Phe 150
Ser Met Pro Glu Val 155	Asn Val Asp Tyr Asn 160	Ala Ser Ser Glu Thr 165
Leu Arg Cys Glu Ala 170	Pro Arg Trp Phe Pro 175	Gln Pro Thr Val Val 180
Trp Ala Ser Gln Val 185	Asp Gln Gly Ala Asn 190	Phe Ser Glu Val Ser 195
Asn Thr Ser Phe Glu 200	Leu Asn Ser Glu Asn 205	Val Thr Met Lys Val 210
Val Ser Val Leu Tyr 215	Asn Val Thr Ile Asn 220	Asn Thr Tyr Ser Cys 225
Met Ile Glu Asn Asp 230	Ile Ala Lys Ala Thr 235	Gly Asp Ile Lys Val 240
Thr Glu Ser Glu Ile 245	Lys Arg Arg Ser His 250	Leu Gln Leu Leu Asn 255
Ser Lys Ala Ser Leu 260	Cys Val Ser Ser Phe 265	Phe Ala Ile Ser Trp 270
Ala Leu Leu Pro Leu 275	Ser Pro Tyr Leu Met 280	Leu Lys

<210> 292
 <211> 1484
 <212> DNA
 <213> Homo sapiens

<400> 292
 gaatttgtag aagacagcgg cgttgccatg gcggcgtctc tggggcaggt 50
 gttggctctg gtgctggtgg ccgctctgtg ggggtggcacg cagccgctgc 100
 tgaagcgggc ctccgccggc ctgcagcggg ttcattgagcc gacctgggccc 150
 cagcagttgc tacaggagat gaagaccctc ttcttgaata ctgagtacct 200
 gatgcccttt ctctcaacc agtgtggatc ctttctctat tacctcacct 250
 tggcatcgac agatctgacc ctggctgtgc ccatctgtaa ctctctggct 300
 atcatcttca cactgattgt tgggaaggcc cttggagaag atattggtgg 350
 aaaacgtaag ttagactact gcgagtgcgg gacgcagctc tgtggatctc 400

P2730P1sequencelisting.txt

gacatacctg tgtagttcc ttcccagaac ccatctcccc agagtgggtg 450
 aggacacggc cttttcccat cctgcccttt cctctgcagc tgttttgctt 500
 ccttgtggcc atcagagttc ccttcccctg gacagtctgg agaaagacag 550
 aggctggggt ttgggattga agaccagacc ccatctgagc ccttcctcca 600
 gccctgtacc agctcctact ggcattggctg agctcagacc ctcttgattt 650
 ctgcctatta tcccaggagc agttgctggc atggtgctca ccgtgatagg 700
 aatttcactc tgcatacaca gctcagtga taagaccagc gggcaacagt 750
 ctaccctttg agtgggccga acccacttcc agctctgctg cctccaggaa 800
 gcccttgggc catgaagtgc tggcagtga cggatggacc tagcacttcc 850
 cctctctggc cttagcttcc tcctctctta tggggataac agctacctca 900
 tggatcaca taagagaaca agagtgaag agttttgtaa ctttcaagt 950
 ctgttcagct gcggggattt agcacaggag actctacgct caccctcagc 1000
 aacctttctg cccagcagc tctcttcctg ctaacatctc aggtctccag 1050
 cccagccacc attactgtgg cctgatctgg actatcatgg tggcaggttc 1100
 catggactgc agaactccag ctgcatggaa agggccagct gcagactttg 1150
 agccagaaat gcaaacggga ggcctctggg actcagtcag agcgctttgg 1200
 ctgaatgagg ggtggaaccg agggaagaag gtgcgtcga gtggcagatg 1250
 caggaaatga gctgtctatt agccttgctt gccccacca tgaggtaggc 1300
 agaaatcctc actgccagcc cctcttaaac aggtagagag ctgtgagccc 1350
 cagccccacc tgactccagc acacctggcg agtagtagct gtcaataaat 1400
 ctatgtaaac agacaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1450
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1484

<210> 293
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 293
 Met Ala Ala Ser Leu Gly Gln Val Leu Ala Leu Val Leu Val Ala
 1 5 10 15
 Ala Leu Trp Gly Gly Thr Gln Pro Leu Leu Lys Arg Ala Ser Ala
 20 25 30
 Gly Leu Gln Arg Val His Glu Pro Thr Trp Ala Gln Gln Leu Leu
 35 40 45
 Gln Glu Met Lys Thr Leu Phe Leu Asn Thr Glu Tyr Leu Met Pro
 50 55 60
 Phe Leu Leu Asn Gln Cys Gly Ser Leu Leu Tyr Tyr Leu Thr Leu
 65 70 75
 Ala Ser Thr Asp Leu Thr Leu Ala Val Pro Ile Cys Asn Ser Leu
 80 85 90

P2730P1sequencelisting.txt

Ala	Ile	Ile	Phe	Thr	Leu	Ile	Val	Gly	Lys	Ala	Leu	Gly	Glu	Asp
				95					100					105
Ile	Gly	Gly	Lys	Arg	Lys	Leu	Asp	Tyr	Cys	Glu	Cys	Gly	Thr	Gln
			110						115					120
Leu	Cys	Gly	Ser	Arg	His	Thr	Cys	Val	Ser	Ser	Phe	Pro	Glu	Pro
			125						130					135
Ile	Ser	Pro	Glu	Trp	Val	Arg	Thr	Arg	Pro	Phe	Pro	Ile	Leu	Pro
			140						145					150
Phe	Pro	Leu	Gln	Leu	Phe	Cys	Phe	Leu	Val	Ala	Ile	Arg	Val	Pro
			155						160					165
Phe	Pro	Trp	Thr	Val	Trp	Arg	Lys	Thr	Glu	Ala	Gly	Val	Trp	Asp
			170						175					180

<210> 294
 <211> 1164
 <212> DNA
 <213> Homo sapiens

<400> 294
 cttctgtagg acagtcacca ggccagatcc agaagcctct ctaggctcca 50
 gctttctctg tggaagatga cagcaattat agcaggaccc tgccaggctg 100
 tcgaaaagat tccgcaataa aactttgccg gtgggaagta cctagtgaaa 150
 cggcctaaga tgccacttct tctcatgtcc caggcttgag gccctgtggt 200
 ccccatcctt gggagaagtc agctccagca ccatgaaggg catcctcggt 250
 gctggtatca ctgcagtgtc tgttgagctc gtagaatctc tgagctgcgt 300
 gcagtgtaat tcatgggaaa aatcctgtgt caacagcatt gcctctgaat 350
 gtccttcaca tgccaacacc agctgtatca gtccttcagc cagctcctct 400
 ctagagacac cagtcagatt ataccagaat atgttctgct cagcggagaa 450
 ctgcagtgtg gagacacaca ttacagcctt cactgtccac gtgtctgctg 500
 aagaacactt tcattttgta agccagtgtc gccaaggaaa ggaatgcagc 550
 aacaccagcg atgccctgga ccctcccctg aagaacgtgt ccagcaacgc 600
 agagtgcctt gcttggtatg aatctaattg aacttcctgt cgtgggaagc 650
 cctggaaatg ctatgaagaa gaacagtgtg tctttctagt tgcagaactt 700
 aagaatgaca ttgagtctaa gagtctcgtg ctgaaaggct gttccaacgt 750
 cagtaacgcc acctgtcagt tcctgtctgg tgaaaacaag actcttgag 800
 gagtcatctt tcgaaagttt gagtgtgcaa atgtaaacag ctttaacccc 850
 acgtctgcac caaccacttc ccacaacgtg ggctccaaag cttccctcta 900
 cctcttgccc cttgccagcc tccttcttcg gggactgctg ccctgaggtc 950
 ctggggctgc actttgcccga gcacccatt tctgcttctc tgaggtccag 1000
 agcaccctt gcggtgctga caccctcttt ccctgctctg ccccgtttaa 1050
 ctgcccagta agtgggagtc acaggtctcc aggcaatgcc gacagctgcc 1100

P2730P1sequencelisting.txt

ttgtttcttca ttattaaagc actggttcat tcactgccaa aaaaaaaaaa 1150
 aaaaaaaaaa aaaa 1164

<210> 295
 <211> 237
 <212> PRT
 <213> Homo sapiens

<400> 295
 Met Lys Gly Ile Leu Val Ala Gly Ile Thr Ala Val Leu Val Ala
 1 5 10 15
 Ala Val Glu Ser Leu Ser Cys Val Gln Cys Asn Ser Trp Glu Lys
 20 25 30
 Ser Cys Val Asn Ser Ile Ala Ser Glu Cys Pro Ser His Ala Asn
 35 40 45
 Thr Ser Cys Ile Ser Ser Ser Ala Ser Ser Ser Leu Glu Thr Pro
 50 55 60
 Val Arg Leu Tyr Gln Asn Met Phe Cys Ser Ala Glu Asn Cys Ser
 65 70 75
 Glu Glu Thr His Ile Thr Ala Phe Thr Val His Val Ser Ala Glu
 80 85 90
 Glu His Phe His Phe Val Ser Gln Cys Cys Gln Gly Lys Glu Cys
 95 100 105
 Ser Asn Thr Ser Asp Ala Leu Asp Pro Pro Leu Lys Asn Val Ser
 110 115 120
 Ser Asn Ala Glu Cys Pro Ala Cys Tyr Glu Ser Asn Gly Thr Ser
 125 130 135
 Cys Arg Gly Lys Pro Trp Lys Cys Tyr Glu Glu Glu Gln Cys Val
 140 145 150
 Phe Leu Val Ala Glu Leu Lys Asn Asp Ile Glu Ser Lys Ser Leu
 155 160 165
 Val Leu Lys Gly Cys Ser Asn Val Ser Asn Ala Thr Cys Gln Phe
 170 175 180
 Leu Ser Gly Glu Asn Lys Thr Leu Gly Gly Val Ile Phe Arg Lys
 185 190 195
 Phe Glu Cys Ala Asn Val Asn Ser Leu Thr Pro Thr Ser Ala Pro
 200 205 210
 Thr Thr Ser His Asn Val Gly Ser Lys Ala Ser Leu Tyr Leu Leu
 215 220 225
 Ala Leu Ala Ser Leu Leu Leu Arg Gly Leu Leu Pro
 230 235

<210> 296
 <211> 1245
 <212> DNA
 <213> Homo sapiens

<400> 296
 ggcctcgggtt caaacgaccc ggtgggtcta cagcggaagg gagggagcga 50
 aggtaggagg cagggccttgc ctactggcc accctcccaa cccaagagc 100

P2730P1sequence1isting.txt

```

ccagcccat ggtcccgcc gccggcgcg tgctgtgggt cctgctgctg 150
aatctgggtc cccgggcggc gggggcccaa ggcctgacct agactccgac 200
cgaaatgcag cgggtcagtt tacgctttgg gggcccatg acccgagct 250
accggagcac cgccggact ggtcttcccc ggaagacaag gataatccta 300
gaggacgaga atgatgcat ggccgacgcc gaccgcctgg ctggaccagc 350
ggctgccgag ctcttggccg ccacggtgtc caccggcttt agccggtcgt 400
ccgccattaa cgaggaggat gggctctcag aagaggggggt tgtgattaat 450
gccggaaagg atagcaccag cagagagctt cccagtgcga ctccaatac 500
agcggggagt tccagcacga ggtttatagc caatagtcag gagcctgaaa 550
tcaggctgac ttcaagcctg ccgcgctccc ccgggaggtc tactgaggac 600
ctgccaggct cgcaggccac cctgagccag tgggtccacac ctgggtctac 650
cccgagccgg tggccgtcac cctcaccac agccatgcca tctcctgagg 700
atctgaggct ggtgctgatg ccctggggcc cgtggcactg cactgcaag 750
tcgggcacca tgagccggag ccggtctggg aagctgcacg gcctttccgg 800
gcgccttcga gttggggcg tgagccagct ccgcacggag cacaagcctt 850
gcacctatca acaatgtccc tgcaaccgac ttcgggaaga gtgccccctg 900
gacacaagtc tctgtactga caccaactgt gcctctcaga gcaccaccag 950
taccaggacc accactaccc ccttccccac catccacctc agaagcagtc 1000
ccagcctgcc acccgccagc ccctgcccag ccctggcttt ttggaaacgg 1050
gtcaggattg gcctggagga tatttggaat agcctctctt cagtgttcac 1100
agagatgcaa ccaatagaca gaaaccagag gtaatggcca cttcatccac 1150
atgaggagat gtcagtatct caacctctct tgccctttca atcctagcac 1200
ccactagata tttttagtac agaaaaacaa aactggaaaa caca 1245

```

<210> 297

<211> 341

<212> PRT

<213> Homo sapiens

<400> 297

```

Met Val Pro Ala Ala Gly Ala Leu Leu Trp Val Leu Leu Leu Asn
 1          5          10          15
Leu Gly Pro Arg Ala Ala Gly Ala Gln Gly Leu Thr Gln Thr Pro
          20          25          30
Thr Glu Met Gln Arg Val Ser Leu Arg Phe Gly Gly Pro Met Thr
          35          40          45
Arg Ser Tyr Arg Ser Thr Ala Arg Thr Gly Leu Pro Arg Lys Thr
          50          55          60
Arg Ile Ile Leu Glu Asp Glu Asn Asp Ala Met Ala Asp Ala Asp
          65          70          75

```

P2730P1sequencelisting.txt

```

Arg Leu Ala Gly Pro Ala Ala Ala Glu Leu Leu Ala Ala Thr Val
80 85 90
Ser Thr Gly Phe Ser Arg Ser Ser Ala Ile Asn Glu Glu Asp Gly
95 100 105
Ser Ser Glu Glu Gly Val Val Ile Asn Ala Gly Lys Asp Ser Thr
110 115 120
Ser Arg Glu Leu Pro Ser Ala Thr Pro Asn Thr Ala Gly Ser Ser
125 130 135
Ser Thr Arg Phe Ile Ala Asn Ser Gln Glu Pro Glu Ile Arg Leu
140 145 150
Thr Ser Ser Leu Pro Arg Ser Pro Gly Arg Ser Thr Glu Asp Leu
155 160 165
Pro Gly Ser Gln Ala Thr Leu Ser Gln Trp Ser Thr Pro Gly Ser
170 175 180
Thr Pro Ser Arg Trp Pro Ser Pro Ser Pro Thr Ala Met Pro Ser
185 190 195
Pro Glu Asp Leu Arg Leu Val Leu Met Pro Trp Gly Pro Trp His
200 205 210
Cys His Cys Lys Ser Gly Thr Met Ser Arg Ser Arg Ser Gly Lys
215 220 225
Leu His Gly Leu Ser Gly Arg Leu Arg Val Gly Ala Leu Ser Gln
230 235 240
Leu Arg Thr Glu His Lys Pro Cys Thr Tyr Gln Gln Cys Pro Cys
245 250 255
Asn Arg Leu Arg Glu Glu Cys Pro Leu Asp Thr Ser Leu Cys Thr
260 265 270
Asp Thr Asn Cys Ala Ser Gln Ser Thr Thr Ser Thr Arg Thr Thr
275 280 285
Thr Thr Pro Phe Pro Thr Ile His Leu Arg Ser Ser Pro Ser Leu
290 295 300
Pro Pro Ala Ser Pro Cys Pro Ala Leu Ala Phe Trp Lys Arg Val
305 310 315
Arg Ile Gly Leu Glu Asp Ile Trp Asn Ser Leu Ser Ser Val Phe
320 325 330
Thr Glu Met Gln Pro Ile Asp Arg Asn Gln Arg
335 340

```

<210> 298

<211> 2692

<212> DNA

<213> Homo sapiens

<400> 298

cccgggtcga cccacgcgtc cggggagaaa ggatggccgg cctggcggcg 50

cggttggtcc tgctagctgg ggcagcggcg ctggcgagcg gctcccaggg 100

cgaccgtgag ccggtgtacc gcgactgctg actgcagtgc gaagagcaga 150

actgctctgg gggcgctctg aatcacttcc gctcccgcca gccaatctac 200

P2730P1sequencelisting.txt

atgagtctag caggctggac ctgtcgggac gactgtaagt atgagtgtat 250
gtgggtcacc gttgggtctt acctccagga aggtcacaaa gtgcctcagt 300
tccatggcaa gtggcccttc tcccggttcc tgttctttca agagccggca 350
tcggccgtgg cctcgtttct caatggcctg gccagcctgg tgatgctctg 400
ccgctaccgc accttcgtgc cagcctcctc ccccatgtac cacacctgtg 450
tggccttcgc ctgggtgtcc ctcaatgcat ggttctggtc cacagtcttc 500
cacaccaggg acactgacct cacagagaaa atggactact tctgtgcctc 550
cactgtcatc ctacactcaa tctacctgtg ctgcgtcagg accgtggggc 600
tgcagcacc agctgtggtc agtgccttcc gggctctcct gctgctcatg 650
ctgaccgtgc acgtctccta cctgagcctc atccgcttcg actatggcta 700
caacctggtg gccaacgtgg ctattggcct ggtcaacgtg gtgtggtggc 750
tggcctggtg cctgtggaac cagcggcggc tgcctcacgt gcgcaagtgc 800
gtggtggtgg tcttgctgct gcaggggctg tccctgctcg agctgcttga 850
cttcccaccg ctcttctggg tcctggatgc ccatgccatc tggcacatca 900
gcaccatccc tgtccacgtc ctctttttca gctttctgga agatgacagc 950
ctgtacctgc tgaaggaatc agaggacaag ttcaagctgg actgaagacc 1000
ttggagcgag tctgccccag tggggatcct gccccgccc tgctggcctc 1050
ccttctcccc tcaaccttg agatgatttt ctcttttcaa cttcttgaac 1100
ttggacatga aggatgtggg ccagaaatca tgtggccagc ccacccctg 1150
ttggccctca ccagccttg agtctgttct aggggaaggcc tcccagcatc 1200
tgggactcga gagtgggcag cccctctacc tcctggagct gaactggggg 1250
ggaactgagt gtgttcttag ctctaccggg aggacagctg cctgtttcct 1300
ccccaccagc ctctcccca catcccagc tgcctggctg ggtcctgaag 1350
ccctctgtct acctgggaga ccagggacca caggccttag ggatacaggg 1400
ggtccccctc tgttaccacc cccaccctc ctccaggaca ccactagggtg 1450
gtgctggatg cttgttcttt ggccagccaa ggttcacggc gattctcccc 1500
atgggatctt gagggacca gctgctggga ttgggaagga gtttcaccct 1550
gaccgttgcc ctagccagggt tcccaggagg cctcaccata ctccctttca 1600
gggccagggc tccagcaagc ccagggcaag gatcctgtgc tgctgtctgg 1650
ttgagagcct gccaccgtgt gtcgggagtg tgggccaggc tgagtgcata 1700
ggtgacaggg ccgtgagcat gggcctgggt gtgtgtgagc tcaggcctag 1750
gtgcgcagtg tggagacggg tgttgctggg gaagaggtgt ggcttcaaag 1800
tgtgtgtgtg caggggggtg gtgtgttagc gtgggttagg ggaacgtgtg 1850
tgcgcgtgct ggtgggcatg tgagatgagt gactgccggt gaatgtgtcc 1900

P2730P1sequencelisting.txt

acagttgaga ggttggagca ggatgagggga atcctgtcac catcaataat 1950
cacttgtgga gcgccagctc tgcccaagac gccacctggg cggacagcca 2000
ggagctctcc atggccaggc tgcctgtgtg catgttccct gtctggtgcc 2050
cctttgcccg cctcctgcaa acctcacagg gtcccccacac aacagtgtccc 2100
tccagaagca gcccctcgga ggcagaggaa ggaaaatggg gatggctggg 2150
gctctctcca tcctcctttt ctcttgcct tcgcatggct ggccttcccc 2200
tccaaaacct ccattcccct gctgccagcc cctttgccat agcctgattt 2250
tggggaggag gaaggggcga tttgaggag aaggggagaa agcttatggc 2300
tgggtctggt ttcttccctt cccagagggt cttactgttc cagggtggcc 2350
ccagggcagg caggggccac actatgcctg tgccctggta aaggtgaccc 2400
ctgccattta ccagcagccc tggcatgttc ctgccccaca ggaatagaat 2450
ggagggagct ccagaaactt tccatcccaa aggcagtctc cgtggttgaa 2500
gcagactgga tttttgctct gccctgacc ccttgtccct ctttgaggga 2550
ggggagctat gctaggactc caacctcagg gactcgggtg gcctgcgcta 2600
gcttcttttg atactgaaaa cttttaaggt gggaggggtg caagggatgt 2650
gcttaataaaa tcaattccaa gcctcaaaaa aaaaaaaaaa aa 2692

<210> 299

<211> 320

<212> PRT

<213> Homo sapiens

<400> 299

Met	Ala	Gly	Leu	Ala	Ala	Arg	Leu	Val	Leu	Leu	Ala	Gly	Ala	Ala	1	5	10	15
Ala	Leu	Ala	Ser	Gly	Ser	Gln	Gly	Asp	Arg	Glu	Pro	Val	Tyr	Arg	20	25	30	
Asp	Cys	Val	Leu	Gln	Cys	Glu	Glu	Gln	Asn	Cys	Ser	Gly	Gly	Ala	35	40	45	
Leu	Asn	His	Phe	Arg	Ser	Arg	Gln	Pro	Ile	Tyr	Met	Ser	Leu	Ala	50	55	60	
Gly	Trp	Thr	Cys	Arg	Asp	Asp	Cys	Lys	Tyr	Glu	Cys	Met	Trp	Val	65	70	75	
Thr	Val	Gly	Leu	Tyr	Leu	Gln	Glu	Gly	His	Lys	Val	Pro	Gln	Phe	80	85	90	
His	Gly	Lys	Trp	Pro	Phe	Ser	Arg	Phe	Leu	Phe	Phe	Gln	Glu	Pro	95	100	105	
Ala	Ser	Ala	Val	Ala	Ser	Phe	Leu	Asn	Gly	Leu	Ala	Ser	Leu	Val	110	115	120	
Met	Leu	Cys	Arg	Tyr	Arg	Thr	Phe	Val	Pro	Ala	Ser	Ser	Pro	Met	125	130	135	
Tyr	His	Thr	Cys	Val	Ala	Phe	Ala	Trp	Val	Ser	Leu	Asn	Ala	Trp	140	145	150	

P2730P1sequencelisting.txt

Phe Trp Ser Thr Val	Phe His Thr Arg Asp Thr Asp Leu Thr Glu
155	160 165
Lys Met Asp Tyr Phe Cys Ala Ser Thr Val	Ile Leu His Ser Ile
170	175 180
Tyr Leu Cys Cys Val Arg Thr Val Gly	Leu Gln His Pro Ala Val
185	190 195
Val Ser Ala Phe Arg Ala Leu Leu Leu	Leu Met Leu Thr Val His
200	205 210
Val Ser Tyr Leu Ser Leu Ile Arg Phe	Asp Tyr Gly Tyr Asn Leu
215	220 225
Val Ala Asn Val Ala Ile Gly Leu Val	Asn Val Val Trp Trp Leu
230	235 240
Ala Trp Cys Leu Trp Asn Gln Arg Arg	Leu Pro His Val Arg Lys
245	250 255
Cys Val Val Val Val Leu Leu Leu Gln	Gly Leu Ser Leu Leu Glu
260	265 270
Leu Leu Asp Phe Pro Pro Leu Phe Trp	Val Leu Asp Ala His Ala
275	280 285
Ile Trp His Ile Ser Thr Ile Pro Val	His Val Leu Phe Phe Ser
290	295 300
Phe Leu Glu Asp Asp Ser Leu Tyr Leu	Leu Lys Glu Ser Glu Asp
305	310 315
Lys Phe Lys Leu Asp	
320	

<210> 300
 <211> 1674
 <212> DNA
 <213> Homo sapiens

<400> 300
 ggccgcctgg aattgtggga gttgtgtctg ccactcggct gccggaggcc 50
 gaaggctccgt gactatggct cccagagacc tgccttcac taggatggct 100
 cctctgggca tgctgcttgg gctgctgatg gccgcctgct tcaccttctg 150
 cctcagtcac cagaacctga aggagtttgc cctgaccaac ccagagaaga 200
 gcagcaccaa agaaacggag agaaaagaaa ccaaagccga ggaggagctg 250
 gatgccgaag tcctggaggt gttccacccg acgcatgagt ggcaggccct 300
 tcagccaggg caggctgtcc ctgcaggatc ccacgtacgg ctgaatcttc 350
 agactgggga aagagaggca aaactccaat atgaggacaa gttccgaaat 400
 aatttgaaag gcaaaaggct ggatatcaac accaacacct acacatctca 450
 ggatctcaag agtgcactgg caaaattcaa ggagggggca gagatggaga 500
 gttcaaagga agacaaggca aggcaggctg aggtaaagcg gctcttccgc 550
 cccattgagg aactgaagaa agactttgat gagctgaatg ttgtcattga 600
 gactgacatg cagatcatgg tacggctgat caacaagttc aatagttcca 650

P2730P1sequencelisting.txt

gctccagttt ggaagagaag attgctgcgc tctttgatct tgaatattat 700
gtccatcaga tggacaatgc gcaggacctg ctttcctttg gtggtcttca 750
agtgggtgatc aatgggctga acagcacaga gcccctcgtg aaggagtatg 800
ctgcgtttgt gctgggctgct gccttttcca gcaaccccaa ggtccaggtg 850
gaggccatcg aagggggagc cctgcagaag ctgctggtca tcctggccac 900
ggagcagccg ctactgcaa agaagaaggt cctgtttgca ctgtgctccc 950
tgctgcgcca cttcccctat gccagcggc agttcctgaa gctcgggggg 1000
ctgcaggctc tgaggacctt ggtgcaggag aagggcacgg aggtgctcgc 1050
cgtgcgcgtg gtcacactgc tctacgacct ggtcacggag aagatgttcg 1100
ccgaggagga ggctgagctg acccaggaga tgtccccaga gaagctgcag 1150
cagtatcgcc aggtacacct cctgccaggc ctgtgggaac agggctggtg 1200
cgagatcacg gccacactcc tggcgctgcc cgagcatgat gcccgtgaga 1250
aggtgctgca gacactgggc gtctcctga ccacctgccg ggaccgctac 1300
cgtcaggacc ccagctcgg caggacactg gccagcctgc aggtgagta 1350
ccaggtgctg gccagcctgg agctgcagga tggtaggagc gagggctact 1400
tccaggagct gctgggctct gtcaacagct tgctgaagga gctgagatga 1450
ggccccacac caggactgga ctgggatgcc gctagtgagg ctgaggggtg 1500
ccagcgtggg tgggcttctc aggcaggagg acatcttggc agtgctggct 1550
tggccattaa atggaaacct gaaggccaaa aaaaaaaaaa aaaaaaaaaa 1600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1650
aaaaaaaaaa aaaaaaaaaa aaaa 1674

<210> 301
<211> 461
<212> PRT
<213> Homo sapiens

<400> 301
Met Ala Pro Gln Ser Leu Pro Ser Ser Arg Met Ala Pro Leu Gly
1 5 10 15
Met Leu Leu Gly Leu Leu Met Ala Ala Cys Phe Thr Phe Cys Leu
20 25 30
Ser His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys
35 40 45
Ser Ser Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala Glu Glu
50 55 60
Glu Leu Asp Ala Glu Val Leu Glu Val Phe His Pro Thr His Glu
65 70 75
Trp Gln Ala Leu Gln Pro Gly Gln Ala Val Pro Ala Gly Ser His
80 85 90
Val Arg Leu Asn Leu Gln Thr Gly Glu Arg Glu Ala Lys Leu Gln
95 100 105

P2730P1sequencelisting.txt

Tyr	Glu	Asp	Lys	Phe	Arg	Asn	Asn	Leu	Lys	Gly	Lys	Arg	Leu	Asp	110	115	120
Ile	Asn	Thr	Asn	Thr	Tyr	Thr	Ser	Gln	Asp	Leu	Lys	Ser	Ala	Leu	125	130	135
Ala	Lys	Phe	Lys	Glu	Gly	Ala	Glu	Met	Glu	Ser	Ser	Lys	Glu	Asp	140	145	150
Lys	Ala	Arg	Gln	Ala	Glu	Val	Lys	Arg	Leu	Phe	Arg	Pro	Ile	Glu	155	160	165
Glu	Leu	Lys	Lys	Asp	Phe	Asp	Glu	Leu	Asn	Val	Val	Ile	Glu	Thr	170	175	180
Asp	Met	Gln	Ile	Met	Val	Arg	Leu	Ile	Asn	Lys	Phe	Asn	Ser	Ser	185	190	195
Ser	Ser	Ser	Leu	Glu	Glu	Lys	Ile	Ala	Ala	Leu	Phe	Asp	Leu	Glu	200	205	210
Tyr	Tyr	Val	His	Gln	Met	Asp	Asn	Ala	Gln	Asp	Leu	Leu	Ser	Phe	215	220	225
Gly	Gly	Leu	Gln	Val	Val	Ile	Asn	Gly	Leu	Asn	Ser	Thr	Glu	Pro	230	235	240
Leu	Val	Lys	Glu	Tyr	Ala	Ala	Phe	Val	Leu	Gly	Ala	Ala	Phe	Ser	245	250	255
Ser	Asn	Pro	Lys	Val	Gln	Val	Glu	Ala	Ile	Glu	Gly	Gly	Ala	Leu	260	265	270
Gln	Lys	Leu	Leu	Val	Ile	Leu	Ala	Thr	Glu	Gln	Pro	Leu	Thr	Ala	275	280	285
Lys	Lys	Lys	Val	Leu	Phe	Ala	Leu	Cys	Ser	Leu	Leu	Arg	His	Phe	290	295	300
Pro	Tyr	Ala	Gln	Arg	Gln	Phe	Leu	Lys	Leu	Gly	Gly	Leu	Gln	Val	305	310	315
Leu	Arg	Thr	Leu	Val	Gln	Glu	Lys	Gly	Thr	Glu	Val	Leu	Ala	Val	320	325	330
Arg	Val	Val	Thr	Leu	Leu	Tyr	Asp	Leu	Val	Thr	Glu	Lys	Met	Phe	335	340	345
Ala	Glu	Glu	Glu	Ala	Glu	Leu	Thr	Gln	Glu	Met	Ser	Pro	Glu	Lys	350	355	360
Leu	Gln	Gln	Tyr	Arg	Gln	Val	His	Leu	Leu	Pro	Gly	Leu	Trp	Glu	365	370	375
Gln	Gly	Trp	Cys	Glu	Ile	Thr	Ala	His	Leu	Leu	Ala	Leu	Pro	Glu	380	385	390
His	Asp	Ala	Arg	Glu	Lys	Val	Leu	Gln	Thr	Leu	Gly	Val	Leu	Leu	395	400	405
Thr	Thr	Cys	Arg	Asp	Arg	Tyr	Arg	Gln	Asp	Pro	Gln	Leu	Gly	Arg	410	415	420
Thr	Leu	Ala	Ser	Leu	Gln	Ala	Glu	Tyr	Gln	Val	Leu	Ala	Ser	Leu	425	430	435
Glu	Leu	Gln	Asp	Gly	Glu	Asp	Glu	Gly	Tyr	Phe	Gln	Glu	Leu	Leu			

Gly Ser Val Asn Ser Leu Leu Lys Glu Leu Arg
455 460

<210> 302
<211> 2136
<212> DNA
<213> Homo sapiens

<400> 302
ttcggcttcc gtagaggaag tggcgcggac cttcatttgg ggtttcgggtt 50
cccccccttc cccttccccg gggctctgggg gtgacattgc accgcgcccc 100
tcgtgggggtc gcgttgccac cccacgcgga ctccccagct ggcgcgcccc 150
tcccatttgc ctgtcctggt caggccccca ccccccttcc cacctgacca 200
gccatggggg ctgcggtggt tttcggctgc actttcgtcg cgttcggccc 250
ggccttcgcg cttttcttga tcaactgtggc tggggaccgc cttcgcgtta 300
tcacctcgtt cgacggggca tttttctggc tgggtctcct gtccttggcc 350
tctgtggtct ggttcatctt ggtccatgtg accgaccggt cagatgcccc 400
gctccagtac ggcctcctga tttttggtgc tgctgtctct gtccttctac 450
aggaggtggt ccgctttgcc tactacaagc tgcttaagaa ggcagatgaa 500
ggggttagcat cgctgagtga ggacggaaga tcacccatct ccatccgcca 550
gatggcctat gtttctggtc tctccttcgg tatcatcagt ggtgtcttct 600
ctgttatcaa tattttggct gatgcacttg ggccagggtg ggttgggatc 650
catggagact caccctatta cttcctgact tcagcctttc tgacagcagc 700
cattatcctg ctccatacct tttggggagt tgtgttcttt gatgcctgtg 750
agaggagacg gtactgggct ttgggcctgg tggttgggag tcacctactg 800
acatcgggac tgacattcct gaacccctgg tatgaggcca gcctgctgcc 850
catctatgca gtcactgttt ccatggggct ctgggccttc atcacagctg 900
gagggtccct ccgaagtatt cagcgcagcc tcttgtgtaa ggactgacta 950
cctggactga tcgcctgaca gatccacact gcctgtccac tgcccatgac 1000
tgagcccagc cccagcccgg gtccattgcc cacattctct gtctccttct 1050
cgtcggtcta cccactacc tccagggttt tgctttgtcc ttttgtgacc 1100
gttagtctct aagctttacc aggagcagcc tgggttcagc cagtcaagtga 1150
ctggtggggt tgaatctgca cttatcccca ccacctgggg acccccttgt 1200
tgtgtccagg actccccctg tgtcagtgtc ctgctctcac cctgcccagg 1250
actcacctcc cttccccctc gcaggccgac ggcaggagga cagtcgggtg 1300
atggtgtatt ctgccctgcg catccacccc gaggactgag ggaacctagg 1350
ggggaccctt gggcctgggg tgccctcctg atgtcctcgc cctgtatttc 1400
tccatctcca gttctggaca gtgcagggtt ccaagaaaag ggacctagtt 1450

P2730P1sequencelisting.txt

tagccattgc cctggagatg aaattaatgg aggctcaagg atagatgagc 1500
tctgagtttc tcagtactcc ctcaagactg gacatcttgg tctttttctc 1550
aggcctgagg ggggaaccatt tttggtgtga taaataccct aaactgcctt 1600
tttttctttt ttgaggtggg gggagggagg aggtatattg gaactcttct 1650
aacctccttg ggctatatatt tctctcctcg agttgctcct catggctggg 1700
ctcattttcg tccctttctc cttggtccca gaccttgggg gaaaggaagg 1750
aagtgcattgt ttgggaactg gcattactgg aactaatggt tttaacctcc 1800
ttaaccacca gcatccctcc tctccccaag gtgaagtgga gggtgctgtg 1850
gtgagctggc cactccagag ctgcagtgcc actggaggag tcagactacc 1900
atgacatcgt aggggaaggag gggagatttt tttgtagttt ttaattgggg 1950
tgtgggaggg gcggggagggt tttctataaa ctgtatcatt ttctgctgag 2000
ggtggagtgt cccatccttt taatcaaggt gattgtgatt ttgactaata 2050
aaaaagaatt tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2100
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 2136

<210> 303
<211> 247
<212> PRT
<213> Homo sapiens

<400> 303
Met Gly Ala Ala Val Phe Phe Gly Cys Thr Phe Val Ala Phe Gly
1 5 10 15
Pro Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu
20 25 30
Arg Val Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser
35 40 45
Leu Leu Leu Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr
50 55 60
Asp Arg Ser Asp Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly
65 70 75
Ala Ala Val Ser Val Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr
80 85 90
Tyr Lys Leu Leu Lys Lys Ala Asp Glu Gly Leu Ala Ser Leu Ser
95 100 105
Glu Asp Gly Arg Ser Pro Ile Ser Ile Arg Gln Met Ala Tyr Val
110 115 120
Ser Gly Leu Ser Phe Gly Ile Ile Ser Gly Val Phe Ser Val Ile
125 130 135
Asn Ile Leu Ala Asp Ala Leu Gly Pro Gly Val Val Gly Ile His
140 145 150
Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser Ala Phe Leu Thr Ala
155 160 165

P2730P1sequencelisting.txt

Ala	Ile	Ile	Leu	Leu	His	Thr	Phe	Trp	Gly	Val	Val	Phe	Phe	Asp
			170						175					180
Ala	Cys	Glu	Arg	Arg	Arg	Tyr	Trp	Ala	Leu	Gly	Leu	Val	Val	Gly
			185						190					195
Ser	His	Leu	Leu	Thr	Ser	Gly	Leu	Thr	Phe	Leu	Asn	Pro	Trp	Tyr
			200						205					210
Glu	Ala	Ser	Leu	Leu	Pro	Ile	Tyr	Ala	Val	Thr	Val	Ser	Met	Gly
			215						220					225
Leu	Trp	Ala	Phe	Ile	Thr	Ala	Gly	Gly	Ser	Leu	Arg	Ser	Ile	Gln
			230						235					240
Arg	Ser	Leu	Leu	Cys	Lys	Asp								
			245											

<210> 304
 <211> 240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 108, 123, 126, 154, 198, 206, 217
 <223> unknown base

<400> 304
 aagctgggtt aaggaagcag aggaggggta gattcggtga gtgaggacgg 50
 aagatcaacc catttccatt ccgccagatg gcctatgttt ctggtctctc 100
 ccttcggnat catcagtggg gtnttntctg ttatcaatat tttggctgat 150
 gcanttgggc caggtgtggg tgggatccat ggagactcac cctattantt 200
 cctganttca gccttntga cagcagccat ttcctgctc 240

<210> 305
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 58, 94, 132, 186, 191, 220, 240, 248, 280, 311, 332
 <223> unknown base

<400> 305
 gaccgaccgt tcagatgccc ggttccagta cggcttcctg atttttggtg 50
 ctgctgtntc tgccttcta caggaggtgt tccgctttgc ctantacaag 100
 ctgcttaaga aggcagatga ggggttagca tngctgagtg aggacggaag 150
 atcacccatt tccatccgcc agatggccta tgttnttggg ntttccttcg 200
 gtatcatcag tgggtgtttt tctgttatca atattttggn tgatgcantt 250
 gggccaggtg tgggtgggat ccatggagan tcaccctatt aattcctgaa 300
 ttcagccttt ntgacagcag ccattatcct gntccatacc ttttggggag 350
 ttgtgttttt tgatgcctgt gagaggag 378

<210> 306
 <211> 655

<212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 1, 22, 129, 133, 184
 <223> unknown base

<400> 306
 ngttggagaa gtggcgcgga cnttcatttg gggtttcggt ttccccctt 50
 tccctttccc cggggtctgg ggtgacattg cacgggcccc tcgtggggtc 100
 gcgttgccac cccacgcgga ctccccagnt ggngcgccct tcccatttgc 150
 ctgtcctggt caggccccca ccccccttcc cacntgacca gccatggggg 200
 ctgcggtggt tttcggctgc actttcgtcg cgttcggccc ggccttcgcy 250
 cttttcttga tcaactgtggc tggggacccg cttcgcgtta tcatcctggt 300
 cgcaggggca tttttctggc tggctctccct gctcctggcc tctgtggtct 350
 ggttcatctt ggtccatgtg accgaccggt cagatgcccg gctccagtac 400
 ggcctcctga tttttggtgc tgctgtctct gtccttctac aggaggtggt 450
 ccgctttgcc tactacaagc tgcttaagaa ggcagatgag gggtttagcat 500
 cgctgagtga ggacggaaga tcacccatct ccatccgcca gatggcctat 550
 gtttctggtc tctccttcgg tatcatcagt ggtgtcttct ctgttatcaa 600
 tattttggct gatgcacttg ggccagggtg ggttgggatc catggagact 650
 cacc 655

<210> 307
 <211> 650
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 52, 89, 128
 <223> unknown base

<400> 307
 gtaaaagaaa gtggccggac cttcattggg gtttcggttc ccccccttcc 50
 cnttccccgg ggtctggggg tgacattgca ccgcgccnt cgtggggctc 100
 cgttgccacc ccacgcggac tccccagntg gcgcgccct cccatttgcc 150
 tgtcctggtc agggccccac ccccccttcc acctgaccag ccatgggggc 200
 tgcggtgttt ttcgggctgc actttcgtcg cgttcggccc cggccttcgc 250
 gcttttcttg atcaactgtg ctggggaccc gcttcgcgtt atcatcctgg 300
 tcgcaggggc atttttctgg ctggtctccc tgctcctggc ctctgtggtc 350
 tggttcatct tgggtccatgt gaccgaccgg tcagatgccc ggctccagta 400
 cggcctcctg atttttggtg ctgctgtctc tgccttcta caggaggtgt 450
 tccgctttgc ctactacaag ctgcttaaga aggcagatga ggggttagca 500

P2730P1sequencelisting.txt

tcgctgagtg aggacggaag atcacccatc tccatccgcc agatggccta 550
 tgtttctggt ctctccttcg gtatcatcag tgggtgtcttc tctgttatca 600
 atattttggc tgatgcactt gggccagggtg tgggtgggat ccatggagac 650

<210> 308

<211> 1570

<212> DNA

<213> Homo sapiens

<400> 308

gccccaggga gcagtgggtg gttataactc aggccccggtg cccagagccc 50
 aggaggaggc agtggccagg aaggcacagg cctgagaagt ctgcggctga 100
 gctgggagca aatccccac cccctacctg ggggacaggg caagtgagac 150
 ctggtgaggg tggctcagca ggcagggaag gagagggtgc tgtgcgtcct 200
 gcaccacat ctttctctgt cccctccttg ccctgtctgg aggctgctag 250
 actcctatct tctgaattct atagtgcctg ggtctcagcg cagtgccgat 300
 ggtggccccgt ccttgtgggt cctctctacc tggggaaata aggtgcagcg 350
 gccatggcta cagcaagacc cccctggatg tgggtgtctt gtgctctgat 400
 cacagccttg cttctggggg tcacagagca tgttctcgcc aacaatgatg 450
 tttcctgtga ccacccctct aacaccgtgc cctctgggag caaccaggac 500
 ctgggagctg gggccgggga agacgcccgg tcggatgaca gcagcagccg 550
 catcatcaat ggatccgact gcgatatgca caccagccg tggcaggccg 600
 cgctgttgct aaggcccaac cagctctact gcggggcggt gttggtgcat 650
 ccacagtggc tgctcacggc cgcccactgc aggaagaaag ttttcagagt 700
 ccgtctcggc cactactccc tgtcaccagt ttatgaatct gggcagcaga 750
 tgttccaggg ggtcaaatec atccccacc ctggctactc ccaccctggc 800
 cactctaacg acctcatgct catcaaactg aacagaagaa ttcgtccac 850
 taaagatgtc agaccatca acgtctctc tcattgtccc tctgctggga 900
 caaagtgtt ggtgtctggc tgggggacaa ccaagagccc ccaagtgcac 950
 ttccctaagg tcctccagt cttgaatatc agcgtgctaa gtcagaaaag 1000
 gtgcgaggat gcttaccga gacagataga tgacaccatg ttctgcgccg 1050
 gtgacaaagc aggtagagac tcctgccagg gtgattctgg ggggcctgtg 1100
 gtctgcaatg gctccctgca gggactcgtg tcctggggag attacccttg 1150
 tgcccggccc aacagaccgg gtgtctacac gaacctctgc aagttacca 1200
 agtggatcca ggaaaccatc caggccaact cctgagtcac cccaggactc 1250
 agcacaccgg catccccacc tgctgcaggg acagccctga cactccttc 1300
 agaccctcat tccttcccag agatgttgag aatgttcac tctccagccc 1350
 ctgaccccat gtctcctgga ctcagggtct gcttccccca cattgggctg 1400

P2730P1sequencelisting.txt

accgtgtctc tctagttgaa ccctgggaac aatttccaaa actgtccagg 1450
 gcggggggttg cgtctcaatc tccctggggc actttcatcc tcaagctcag 1500
 ggcccatccc ttctctgcag ctctgacca aatttagtcc cagaaataaa 1550
 ctgagaagtg gaaaaaaaaa 1570.

<210> 309
 <211> 293
 <212> PRT
 <213> Homo sapiens

<400> 309
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu
 1 5 10 15
 Ile Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn
 20 25 30
 Asn Asp Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly
 35 40 45
 Ser Asn Gln Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser
 50 55 60
 Asp Asp Ser Ser Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met
 65 70 75
 His Thr Gln Pro Trp Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln
 80 85 90
 Leu Tyr Cys Gly Ala Val Leu Val His Pro Gln Trp Leu Leu Thr
 95 100 105
 Ala Ala His Cys Arg Lys Lys Val Phe Arg Val Arg Leu Gly His
 110 115 120
 Tyr Ser Leu Ser Pro Val Tyr Glu Ser Gly Gln Gln Met Phe Gln
 125 130 135
 Gly Val Lys Ser Ile Pro His Pro Gly Tyr Ser His Pro Gly His
 140 145 150
 Ser Asn Asp Leu Met Leu Ile Lys Leu Asn Arg Arg Ile Arg Pro
 155 160 165
 Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser His Cys Pro Ser
 170 175 180
 Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr Thr Lys Ser
 185 190 195
 Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn Ile Ser
 200 205 210
 Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln Ile
 215 220 225
 Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser
 230 235 240
 Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu
 245 250 255
 Gln Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn
 260 265 270

Arg Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile
275 280 285

Gln Glu Thr Ile Gln Ala Asn Ser
290

<210> 310

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 310

tcctgtgacc acccctctaa cacc 24

<210> 311

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 311

ctggaacatc tgctgcccag attc 24

<210> 312

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 312

gtcggatgac agcagcagcc gcatcatcaa tggatccgac tgcgatatgc 50

<210> 313

<211> 3010

<212> DNA

<213> Homo sapiens

<400> 313

atggtcaacg accggtggaa gaccatgggc ggcgctgccc aacttgagga 50

ccggccgcgc gacaagccgc agcggccgag ctgcggctac gtgctgtgca 100

ccgtgctgct ggccctggct gtgctgctgg ctgtagctgt caccggtgcc 150

gtgctcttcc tgaaccacgc ccacgcgccg ggcacggcgc cccacctgt 200

cgtcagcact ggggctgcca gcgccaacag cgccctggtc actgtggaaa 250

gggaggacag ctgcacctc agcatcctca ttgaccgcg ctgccccgac 300

ctcaccgaca gtttcgcacg cctggagagc gccaggcct cgggtgctgca 350

ggcgctgaca gagcaccagg cccagccacg gctggtgggc gaccaggagc 400

aggagctgct ggacacgctg gccgaccagc tgccccggct gctggcccga 450

gcctcagagc tgcagacgga gtgcatgggg ctgcggaagg ggcattggac 500

gctgggcccag ggcctcagcg ccctgcagag tgagcagggc cgcctcatcc 550

agcttctctc tgagagccag ggccacatgg ctcacctggt gaactccgtc 600

P2730P1sequencelisting.txt

agcgacatcc tggatgccct gcagagggac cgggggctgg gccggccccg 650
 caacaaggcc gaccttcaga gagcgctgc ccggggaacc cggccccggg 700
 gctgtgccac tggctcccgg ccccgagact gtctggacgt cctcctaagc 750
 ggacagcagg acgatggcgt ctactctgtc tttcccaccc actacccggc 800
 cggcttccag gtgtactgtg acatgcgcac ggacggcggc ggctggacgg 850
 tgtttcagcg ccgggaggac ggctccgtga acttcttccg gggctgggac 900
 gcgtaccgag acggcttttg caggctcacc ggggagcact ggctagggct 950
 caagaggatc cacgccctga ccacacaggc tgcctacgag ctgcacgtgg 1000
 acctggagga ctttgagaat ggcacggcct atgcccgcta cgggagcttc 1050
 ggcgtgggct tgttctccgt ggaccctgag gaagacgggt acccgctcac 1100
 cgtggctgac tattccggca ctgcaggcga ctccctcctg aagcacagcg 1150
 gcatgaggtt caccaccaag gaccgtgaca gcgaccattc agagaacaac 1200
 tgtgccgcct tctaccgcgg tgcctggtgg taccgcaact gccacacgtc 1250
 caacctcaat gggcagtacc tgcgcggtgc gcacgcctcc tatgccgacg 1300
 gcgtggagtg gtcctcctgg accggctggc agtactcact caagttctct 1350
 gagatgaaga tccggccggt ccgggaggac cgctagactg gtgcaccttg 1400
 tccttgcccc tgctggtccc tgtcgccca tccccgaccc cacctcactc 1450
 tttcgtgaat gttctccacc cacctgtgcc tggcggaccc actctccagt 1500
 agggaggggc cgggccatcc ctgacacgaa gctccctggg ccggtgaagt 1550
 cacacatcgc cttctcgccg tccccacccc ctccatttgg cagctcactg 1600
 atctcttgcc tctgctgatg ggggctggca aacttgacga cccaactcc 1650
 tgcctgcccc cactgtgact ccggtgctgt ttgccgtccc ctggccagga 1700
 tgggtggagtc tgccccaggc accctctgcc ctgcccggcc aaatacccg 1750
 cattatgggg acagagagca gggggcagac agcaccctg gagtcctcct 1800
 agcagatcgt ggggaatgtc aggtctctct gaggtcaggt ctgaggccag 1850
 tatcctccag ccttcccaat gccaaacccc acccgtttc cctggtgccc 1900
 agagaacca cctctcccc aagggcctca gcctggctgt gggctgggtg 1950
 gccccatcct accaggccct gaggtcagga tggggagctg ctgccttttg 2000
 ggaccacgc tccaaggctg agaccagttc cctggaggcc acccacctg 2050
 tgccccggca ggcctggggc ctgcagtcct cttacctgct gtgcccacct 2100
 gctctctgtc tcaaatgagg cccaacccat cccccacca gctcccggcc 2150
 gtcctcctac ctggggcagc cggggctgcc atcccatctc tcctgcctct 2200
 ggaaggtggg tggggccctg caccgtgggg ctggactgcg ctaatgggaa 2250
 gctcttggtt ttctgggctg gggcctaggg agggctggga tgaggcttgt 2300

P2730P1sequencelisting.txt

acaacccccca ccaccaattt cccagggact ccagggctct gaggcctccc 2350
aggagggcct tgggggtgat gaccccttcc ctgaggtggc tgtctccatg 2400
aggaggccaa cccttgccat tgaccgtggc cacctggacc caggccaggc 2450
ccggcccggc gagtgggtcaa gggacagga ccacctcacc gggcaaattg 2500
ggtcgggggg actggggcac cagaccaggc accacctgga cactttcttg 2550
ttgaatcctc ccaacaccca gcacgtgtc atccccactc cttgtgtgca 2600
cacatgcaga ggtgagaccc gcaggctccc aggaccagca gccacaaggg 2650
cagggtgga gccgggtcct cagctgtctg ctcagcagcc ctggaccgcg 2700
gtgcgttacg tcaggccag atgcaggcg gcttttccaa ggcctcctga 2750
tgggggcctc cgaaagggt ggagtcagcc ttggggagct gcctagcagc 2800
ctctcctcgg gcaggagggg aggtggcttc ctccaaagga caccgatgg 2850
caggtgccta ggggggtgtg ggttccgttc tcccttccc tccactgaa 2900
gtttgtgctt aaaaaacaat aaatttgact tggcaccact gggggttggt 2950
gggagaggcc gtgtgacctg gctctctgtc ccagtgccac caggtcatcc 3000
acatgcgcag 3010

<210> 314

<211> 461

<212> PRT

<213> Homo sapiens

<400> 314

Met	Val	Asn	Asp	Arg	Trp	Lys	Thr	Met	Gly	Gly	Ala	Ala	Gln	Leu
1				5					10					15
Glu	Asp	Arg	Pro	Arg	Asp	Lys	Pro	Gln	Arg	Pro	Ser	Cys	Gly	Tyr
				20					25					30
Val	Leu	Cys	Thr	Val	Leu	Leu	Ala	Leu	Ala	Val	Leu	Leu	Ala	Val
				35					40					45
Ala	Val	Thr	Gly	Ala	Val	Leu	Phe	Leu	Asn	His	Ala	His	Ala	Pro
				50					55					60
Gly	Thr	Ala	Pro	Pro	Pro	Val	Val	Ser	Thr	Gly	Ala	Ala	Ser	Ala
				65					70					75
Asn	Ser	Ala	Leu	Val	Thr	Val	Glu	Arg	Ala	Asp	Ser	Ser	His	Leu
				80					85					90
Ser	Ile	Leu	Ile	Asp	Pro	Arg	Cys	Pro	Asp	Leu	Thr	Asp	Ser	Phe
				95					100					105
Ala	Arg	Leu	Glu	Ser	Ala	Gln	Ala	Ser	Val	Leu	Gln	Ala	Leu	Thr
				110					115					120
Glu	His	Gln	Ala	Gln	Pro	Arg	Leu	Val	Gly	Asp	Gln	Glu	Gln	Glu
				125					130					135
Leu	Leu	Asp	Thr	Leu	Ala	Asp	Gln	Leu	Pro	Arg	Leu	Leu	Ala	Arg
				140					145					150
Ala	Ser	Glu	Leu	Gln	Thr	Glu	Cys	Met	Gly	Leu	Arg	Lys	Gly	His

P2730P1sequencelisting.txt

	155		160		165
Gly Thr Leu Gly	Gln Gly Leu Ser Ala	Leu Gln Ser Glu Gln	Gly		
	170		175		180
Arg Leu Ile Gln	Leu Leu Ser Glu Ser	Gln Gly His Met Ala	His		
	185		190		195
Leu Val Asn Ser	Val Ser Asp Ile Leu	Asp Ala Leu Gln Arg	Asp		
	200		205		210
Arg Gly Leu Gly	Arg Pro Arg Asn Lys	Ala Asp Leu Gln Arg	Ala		
	215		220		225
Pro Ala Arg Gly	Thr Arg Pro Arg Gly	Cys Ala Thr Gly Ser	Arg		
	230		235		240
Pro Arg Asp Cys	Leu Asp Val Leu Leu	Ser Gly Gln Gln Asp	Asp		
	245		250		255
Gly Val Tyr Ser	Val Phe Pro Thr His	Tyr Pro Ala Gly Phe	Gln		
	260		265		270
Val Tyr Cys Asp	Met Arg Thr Asp Gly	Gly Gly Trp Thr Val	Phe		
	275		280		285
Gln Arg Arg Glu	Asp Gly Ser Val Asn	Phe Phe Arg Gly Trp	Asp		
	290		295		300
Ala Tyr Arg Asp	Gly Phe Gly Arg Leu	Thr Gly Glu His Trp	Leu		
	305		310		315
Gly Leu Lys Arg	Ile His Ala Leu Thr	Thr Gln Ala Ala Tyr	Glu		
	320		325		330
Leu His Val Asp	Leu Glu Asp Phe Glu	Asn Gly Thr Ala Tyr	Ala		
	335		340		345
Arg Tyr Gly Ser	Phe Gly Val Gly Leu	Phe Ser Val Asp Pro	Glu		
	350		355		360
Glu Asp Gly Tyr	Pro Leu Thr Val Ala	Asp Tyr Ser Gly Thr	Ala		
	365		370		375
Gly Asp Ser Leu	Leu Lys His Ser Gly	Met Arg Phe Thr Thr	Lys		
	380		385		390
Asp Arg Asp Ser	Asp His Ser Glu Asn	Asn Cys Ala Ala Phe	Tyr		
	395		400		405
Arg Gly Ala Trp	Trp Tyr Arg Asn Cys	His Thr Ser Asn Leu	Asn		
	410		415		420
Gly Gln Tyr Leu	Arg Gly Ala His Ala	Ser Tyr Ala Asp Gly	Val		
	425		430		435
Glu Trp Ser Ser	Trp Thr Gly Trp Gln	Tyr Ser Leu Lys Phe	Ser		
	440		445		450
Glu Met Lys Ile	Arg Pro Val Arg Glu	Asp Arg			
	455		460		

<210> 315

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 315

cacacgtcca acctcaatgg gcag 24

<210> 316

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 316

gaccagcagg gccaaaggaca agg 23

<210> 317

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 317

gtttctctgag atgaagatcc ggccggtccg ggagtaccgc ttag 44

<210> 318

<211> 1841

<212> DNA

<213> Homo sapiens

<400> 318

gcagtcagag acttcccctg cccctcgctg ggaaagaaca ttaggaatgc 50

cttttagtgc cttgcttcct gaactagctc acagtagccc ggcgccccag 100

ggcaatccga ccacatttca ctctcaccgc tgtaggaatc cagatgcagg 150

ccaagtacag cagcacgagg gacatgctgg atgatgatgg ggacaccacc 200

atgagcctgc attctcaagc ctctgccaca actcggcatc cagagccccg 250

gcgcacagag cacagggctc cctcttcaac gtggcgacca gtggccctga 300

ccctgctgac tttgtgcttg gtgctgctga tagggctggc agccctgggg 350

cttttgtttt ttcagtacta ccagctctcc aatactggtc aagacaccat 400

ttctcaaatg gaagaaagat taggaaatac gtcccaagag ttgcaatctc 450

ttcaagtcca gaatataaag cttgcaggaa gtctgcagca tgtggctgaa 500

aaactctgtc gtgagctgta taacaaagct ggagcacaca ggtgcagccc 550

ttgtacagaa caatggaaat ggcattggaga caattgctac cagttctata 600

aagacagcaa aagttgggag gactgtaaat atttctgcct tagtgaaaac 650

tctaccatgc tgaagataaa caaacaagaa gacctggaat ttgccgcgtc 700

tcagagctac tctgagtttt tctactctta ttggacaggg cttttgcgcc 750

ctgacagtgg caaggcctgg ctgtggatgg atggaacccc tttcacttct 800

gaactgttcc atattataat agatgtcacc agcccaagaa gcagagactg 850

tgtggccatc ctcaatggga tgatcttctc aaaggactgc aaagaattga 900

P2730P1sequencelisting.txt

agcgttgtgt ctgtgagaga agggcaggaa tggatgaagcc agagagcctc 950
catgtccccc ctgaaacatt aggcgaaggt gactgattcg ccctctgcaa 1000
ctacaaatag cagagtgagc caggcggtgc caaagcaagg gctagttgag 1050
acattgggaa atggaacata atcaggaaag actatctctc tgactagtac 1100
aaaatgggtt ctcgtgtttc ctgttcagga tcaccagcat ttctgagctt 1150
gggttttatgc acgtatttaa cagtcacaag aagtcttatt tacatgccac 1200
caaccaacct cagaaaccca taatgtcatc tgccttcttg gcttagagat 1250
aacttttagc tctctttctt ctcaatgtct aatatcacct ccctgttttc 1300
atgtcttcct tacacttggg ggaataagaa actttttgaa gtagaggaaa 1350
tacattgagg taacatcctt ttctctgaca gtcaagtagt ccatcagaaa 1400
ttggcagtca cttccagat tgtaccagca aatacacaag gaattctttt 1450
tgtttgtttc agttcatact agtcccttcc caatccatca gtaaagaccc 1500
catctgcctt gtccatgccg ttccccaaca gggatgtcac ttgatatgag 1550
aatctcaaat ctcaatgcct tataagcatt ccttctctgtg tccattaaga 1600
ctctgataat tgtctccctt ccataggaat ttctcccagg aaagaaatat 1650
atccccatct ccgtttcata tcagaactac cgtccccgat attcccttca 1700
gagagattaa agaccagaaa aaagtgagcc tcttcatctg cacctgtaat 1750
agtttcagtt cctattttct tccattgacc catatttata cttttcaggt 1800
actgaagatt taataataat aaatgtaaat actgtgaaaa a 1841

<210> 319

<211> 280

<212> PRT

<213> Homo sapiens

<400> 319

Met	Gln	Ala	Lys	Tyr	Ser	Ser	Thr	Arg	Asp	Met	Leu	Asp	Asp	Asp
1				5					10				15	
Gly	Asp	Thr	Thr	Met	Ser	Leu	His	Ser	Gln	Ala	Ser	Ala	Thr	Thr
				20					25				30	
Arg	His	Pro	Glu	Pro	Arg	Arg	Thr	Glu	His	Arg	Ala	Pro	Ser	Ser
				35					40				45	
Thr	Trp	Arg	Pro	Val	Ala	Leu	Thr	Leu	Leu	Thr	Leu	Cys	Leu	Val
				50					55				60	
Leu	Leu	Ile	Gly	Leu	Ala	Ala	Leu	Gly	Leu	Leu	Phe	Phe	Gln	Tyr
				65					70				75	
Tyr	Gln	Leu	Ser	Asn	Thr	Gly	Gln	Asp	Thr	Ile	Ser	Gln	Met	Glu
				80					85				90	
Glu	Arg	Leu	Gly	Asn	Thr	Ser	Gln	Glu	Leu	Gln	Ser	Leu	Gln	Val
				95					100				105	
Gln	Asn	Ile	Lys	Leu	Ala	Gly	Ser	Leu	Gln	His	Val	Ala	Glu	Lys
				110					115				120	

P2730P1sequencelisting.txt

Leu Cys Arg Glu	Leu Tyr Asn Lys Ala	Gly Ala His Arg Cys	Ser
125		130	135
Pro Cys Thr Glu	Gln Trp Lys Trp His	Gly Asp Asn Cys Tyr	Gln
140		145	150
Phe Tyr Lys Asp	Ser Lys Ser Trp Glu	Asp Cys Lys Tyr Phe	Cys
155		160	165
Leu Ser Glu Asn	Ser Thr Met Leu Lys	Ile Asn Lys Gln Glu	Asp
170		175	180
Leu Glu Phe Ala	Ala Ser Gln Ser Tyr	Ser Glu Phe Phe Tyr	Ser
185		190	195
Tyr Trp Thr Gly	Leu Leu Arg Pro Asp	Ser Gly Lys Ala Trp	Leu
200		205	210
Trp Met Asp Gly	Thr Pro Phe Thr Ser	Glu Leu Phe His Ile	Ile
215		220	225
Ile Asp Val Thr	Ser Pro Arg Ser Arg	Asp Cys Val Ala Ile	Leu
230		235	240
Asn Gly Met Ile	Phe Ser Lys Asp Cys	Lys Glu Leu Lys Arg	Cys
245		250	255
Val Cys Glu Arg	Arg Ala Gly Met Val	Lys Pro Glu Ser Leu	His
260		265	270
Val Pro Pro Glu	Thr Leu Gly Glu Gly	Asp	
275		280	

<210> 320
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 59, 95, 149, 331, 364, 438, 446
 <223> unknown base

<400> 320
 aattttcacc gctgtaggaa tccagatgca ggccaagtac agcagcacga 50
 gggacatgnt ggatgatgat gggacaccac catgagcctg cattntcaag 100
 cttttgccac aattcggcat ccagagcccc ggcgcacaga gcacagggnt 150
 cctttttcaa cgtggcgacc agtggccctg accctgctga ctttgtgctt 200
 ggtgctgctg atagggctgg cagccctggg gcttttgttt tttcagtact 250
 accagctctc caatactggt caagacacca tttctcaaat ggaagaaaga 300
 ttaggaaata cgtcccaaga gttgcaattt nttcaagtcc agaataataa 350
 gcttgcagga agtntgcagc atgtggctga aaaactctgt cgtgagctgt 400
 ataacaagc tggaggaact ttgaaggagg gcaaagtntc ctcatntact 450
 atacacacac cacttccc 468

<210> 321
 <211> 23
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 321

atgcaggcca agtacagcag cac 23

<210> 322

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 322

catgctgacg acttcctgca agc 23

<210> 323

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 323

ccacacagtc tctgcttctt ggg 23

<210> 324

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 324

atgctggatg atgatgggga caccacatg agcctgcatt 40

<210> 325

<211> 2988

<212> DNA

<213> Homo sapiens

<400> 325

gccgagcgca agaaccctgc gcagcccaga gcagctgctg gaggggaatc 50

gaggcgcggc tccggggatt cggctcgggc cgctggctct gctctgcggg 100

gagggagcgg gcccgccgc ggggcccag ccctccgat ccgcccctc 150

cccgggtccc cccctcgga gactcctctg gctgctctgg gggttcgccg 200

gggcccggga cccgcggtcc gggcgccatg cgggcatcgc tgctgctgtc 250

ggtgctgcgg cccgcagggc ccgtggccgt gggcatctcc ctgggcttca 300

ccctgagcct gctcagcgtc acctgggtgg aggagccgtg cggcccaggc 350

ccgcccacac ctggagactc tgagctgccg ccgcgcggca acaccaacgc 400

ggcgcgcccg cccaactcgg tgcagcccgg agcggagcgc gagaagcccg 450

gggcccggca aggcgcccgg gagaattggg agccgcgcgt cttgccctac 500

cacctgcac agcccggcca ggccgcaaaa aaggccgtca ggaccgcgta 550

P2730P1sequencelisting.txt

catcagcacg gagctgggca tcaggcagag gctgctggtg gcggtgctga 600
cctctcagac cacgctgccc acgctgggcg tggccgtgaa ccgcacgctg 650
gggcaccggc tggagcgtgt ggtgttcctg acgggcgcac ggggccgccc 700
ggccccacct ggcattggcag tggtagacgt gggcgaggag cgacccattg 750
gacacctgca cctggcgctg cgccacctgc tggagcagca cggcgacgac 800
tttgactggt tcttcctggt gcctgacacc acctacaccg aggcgcacgg 850
cctggcacgc ctaactggcc acctcagcct ggcctccgcc gccacactgt 900
acctggggcg gccccaggac ttcacggcg gagagcccac ccccggccgc 950
tactgccacg gaggcttttg ggtgctgctg tcgcgcacgt tgctgcaaca 1000
actgcgcccc cacctggaag gctgccgcaa cgacatcgtc agtgcgcgcc 1050
ctgacgagtg gctgggtcgc tgcattctcg atgccaccgg ggtgggctgc 1100
actggtgacc acgagggggg gcactatagc catctggagc tgagccctgg 1150
ggagccagtg caggaggggg accctcattt ccgaagtgcc ctgacagccc 1200
accctgtgcg tgaccctgtg cacatgtacc agctgcacaa agctttcgcc 1250
cgagctgaac tggaacgcac gtaccaggag atccaggagt tacagtggga 1300
gatccagaat accagccatc tggccgttga tggggaccgg gcagctgctt 1350
ggcccgtggg tattccagca ccatcccgcc cggcctcccg ctttgaggtg 1400
ctgcgctggg actacttcac ggagcagcac gctttctcct gcgccgatgg 1450
ctcaccgccg tgcccactgc gtggggctga ccgggctgat gtggccgatg 1500
ttctggggac agctctagag gagctgaacc gccgctacca cccggccttg 1550
cggctccaga agcagcagct ggtgaatggc taccgacgct ttgatccggc 1600
ccggggtatg gaatacacgc tggacttgca gctggaggca ctgaccccc 1650
agggaggccg ccggccccctc actcggcgag tgcagctgct ccggccgctg 1700
agccgcgtgg agatcttgcc tgtgccctat gtcactgagg cctcacgtct 1750
cactgtgctg ctgcctctag ctgcggctga gcgtgacctg gccctggct 1800
tcttgaggc ctttgccact gcagcactgg agcctggtga tgctgcggca 1850
gccctgacct tgctgctact gtatgagccg cgccaggccc agcgcgaggc 1900
ccatgcagat gtcttcgcac ctgtcaaggc ccacgtggca gagctggagc 1950
ggcgtttccc cggtgcccgg gtgccatggc tcagtgtgca gacagccgca 2000
ccctcaccac tgcgcctcat ggatctactc tccaagaagc acccgctgga 2050
cacactgttc ctgctggccg ggccagacac ggtgctcacg cctgacttcc 2100
tgaaccgctg ccgcatgcat gccatctccg gctggcaggc cttctttccc 2150
atgcatttcc aagccttcca cccagggtgt gccccaccac aagggcctgg 2200
gccccagag ctggggccgtg aactggccg ctttgatcgc caggcagcca 2250

P2730P1sequencelisting.txt

gcgaggcctg cttctacaac tccgactacg tggcagcccg tgggcgcctg 2300
 gcggcagcct cagaacaaga agaggagctg ctggagagcc tggatgtgta 2350
 cgagctgttc ctccacttct ccagtctgca tgtgctgctg gcggtggagc 2400
 cggcgctgct gcagcgctac cgggcccaga cgtgcagcgc gaggctcagt 2450
 gaggacctgt accaccgctg cctccagagc gtgcttgagg gcctcggctc 2500
 ccgaaccag ctggccatgc tactctttga acaggagcag ggcaacagca 2550
 cctgaccca ccctgtcccc gtgggccgtg gcatggccac accccacccc 2600
 acttctcccc caaaaccaga gccacctgcc agcctcgtg ggcagggctg 2650
 gccgtagcca gacccaagc tggcccactg gtcccctctc tggctctgtg 2700
 ggtccctggg ctctggacaa gactggggg acgtgcccc agagccaccc 2750
 acttctcctc ccaaaccag tttccctgcc ccctgacgct gctgattcgg 2800
 gctgtggcct ccacgtatit atgcagtaca gtctgcctga cgccagccct 2850
 gcctctgggc cctgggggct gggctgtaga agagtgttg gggaggagg 2900
 gagctgagga gggggcatct cccaacttct cccttttga ccctgccgaa 2950
 gctccctgcc tttataaac tggccaagtg tggaaaaa 2988

<210> 326
 <211> 775
 <212> PRT
 <213> Homo sapiens

<400> 326
 Met Arg Ala Ser Leu Leu Leu Ser Val Leu Arg Pro Ala Gly Pro
 1 5 10 15
 Val Ala Val Gly Ile Ser Leu Gly Phe Thr Leu Ser Leu Leu Ser
 20 25 30
 Val Thr Trp Val Glu Glu Pro Cys Gly Pro Gly Pro Pro Gln Pro
 35 40 45
 Gly Asp Ser Glu Leu Pro Pro Arg Gly Asn Thr Asn Ala Ala Arg
 50 55 60
 Arg Pro Asn Ser Val Gln Pro Gly Ala Glu Arg Glu Lys Pro Gly
 65 70 75
 Ala Gly Glu Gly Ala Gly Glu Asn Trp Glu Pro Arg Val Leu Pro
 80 85 90
 Tyr His Pro Ala Gln Pro Gly Gln Ala Ala Lys Lys Ala Val Arg
 95 100 105
 Thr Arg Tyr Ile Ser Thr Glu Leu Gly Ile Arg Gln Arg Leu Leu
 110 115 120
 Val Ala Val Leu Thr Ser Gln Thr Thr Leu Pro Thr Leu Gly Val
 125 130 135
 Ala Val Asn Arg Thr Leu Gly His Arg Leu Glu Arg Val Val Phe
 140 145 150
 Leu Thr Gly Ala Arg Gly Arg Arg Ala Pro Pro Gly Met Ala Val

P2730P1sequencelisting.txt

155	160	165
Val Thr Leu Gly	Glu Glu Arg Pro Ile Gly His Leu His Leu	Ala
170	175	180
Leu Arg His Leu	Leu Glu Gln His Gly Asp Asp Phe Asp Trp	Phe
185	190	195
Phe Leu Val Pro	Asp Thr Thr Tyr Thr Glu Ala His Gly Leu	Ala
200	205	210
Arg Leu Thr Gly	His Leu Ser Leu Ala Ser Ala Ala His Leu	Tyr
215	220	225
Leu Gly Arg Pro	Gln Asp Phe Ile Gly Gly Glu Pro Thr Pro	Gly
230	235	240
Arg Tyr Cys His	Gly Gly Phe Gly Val Leu Leu Ser Arg Met	Leu
245	250	255
Leu Gln Gln Leu	Arg Pro His Leu Glu Gly Cys Arg Asn Asp	Ile
260	265	270
Val Ser Ala Arg	Pro Asp Glu Trp Leu Gly Arg Cys Ile Leu	Asp
275	280	285
Ala Thr Gly Val	Gly Cys Thr Gly Asp His Glu Gly Val His	Tyr
290	295	300
Ser His Leu Glu	Leu Ser Pro Gly Glu Pro Val Gln Glu Gly	Asp
305	310	315
Pro His Phe Arg	Ser Ala Leu Thr Ala His Pro Val Arg Asp	Pro
320	325	330
Val His Met Tyr	Gln Leu His Lys Ala Phe Ala Arg Ala Glu	Leu
335	340	345
Glu Arg Thr Tyr	Gln Glu Ile Gln Glu Leu Gln Trp Glu Ile	Gln
350	355	360
Asn Thr Ser His	Leu Ala Val Asp Gly Asp Arg Ala Ala Ala	Trp
365	370	375
Pro Val Gly Ile	Pro Ala Pro Ser Arg Pro Ala Ser Arg Phe	Glu
380	385	390
Val Leu Arg Trp	Asp Tyr Phe Thr Glu Gln His Ala Phe Ser	Cys
395	400	405
Ala Asp Gly Ser	Pro Arg Cys Pro Leu Arg Gly Ala Asp Arg	Ala
410	415	420
Asp Val Ala Asp	Val Leu Gly Thr Ala Leu Glu Glu Leu Asn	Arg
425	430	435
Arg Tyr His Pro	Ala Leu Arg Leu Gln Lys Gln Gln Leu Val	Asn
440	445	450
Gly Tyr Arg Arg	Phe Asp Pro Ala Arg Gly Met Glu Tyr Thr	Leu
455	460	465
Asp Leu Gln Leu	Glu Ala Leu Thr Pro Gln Gly Gly Arg Arg	Pro
470	475	480
Leu Thr Arg Arg	Val Gln Leu Leu Arg Pro Leu Ser Arg Val	Glu
485	490	495

P2730P1sequencelisting.txt

Ile	Leu	Pro	Val	Pro	Tyr	Val	Thr	Glu	Ala	Ser	Arg	Leu	Thr	Val
				500					505					510
Leu	Leu	Pro	Leu	Ala	Ala	Ala	Glu	Arg	Asp	Leu	Ala	Pro	Gly	Phe
				515					520					525
Leu	Glu	Ala	Phe	Ala	Thr	Ala	Ala	Leu	Glu	Pro	Gly	Asp	Ala	Ala
				530					535					540
Ala	Ala	Leu	Thr	Leu	Leu	Leu	Leu	Tyr	Glu	Pro	Arg	Gln	Ala	Gln
				545					550					555
Arg	Val	Ala	His	Ala	Asp	Val	Phe	Ala	Pro	Val	Lys	Ala	His	Val
				560					565					570
Ala	Glu	Leu	Glu	Arg	Arg	Phe	Pro	Gly	Ala	Arg	Val	Pro	Trp	Leu
				575					580					585
Ser	Val	Gln	Thr	Ala	Ala	Pro	Ser	Pro	Leu	Arg	Leu	Met	Asp	Leu
				590					595					600
Leu	Ser	Lys	Lys	His	Pro	Leu	Asp	Thr	Leu	Phe	Leu	Leu	Ala	Gly
				605					610					615
Pro	Asp	Thr	Val	Leu	Thr	Pro	Asp	Phe	Leu	Asn	Arg	Cys	Arg	Met
				620					625					630
His	Ala	Ile	Ser	Gly	Trp	Gln	Ala	Phe	Phe	Pro	Met	His	Phe	Gln
				635					640					645
Ala	Phe	His	Pro	Gly	Val	Ala	Pro	Pro	Gln	Gly	Pro	Gly	Pro	Pro
				650					655					660
Glu	Leu	Gly	Arg	Asp	Thr	Gly	Arg	Phe	Asp	Arg	Gln	Ala	Ala	Ser
				665					670					675
Glu	Ala	Cys	Phe	Tyr	Asn	Ser	Asp	Tyr	Val	Ala	Ala	Arg	Gly	Arg
				680					685					690
Leu	Ala	Ala	Ala	Ser	Glu	Gln	Glu	Glu	Glu	Leu	Leu	Glu	Ser	Leu
				695					700					705
Asp	Val	Tyr	Glu	Leu	Phe	Leu	His	Phe	Ser	Ser	Leu	His	Val	Leu
				710					715					720
Arg	Ala	Val	Glu	Pro	Ala	Leu	Leu	Gln	Arg	Tyr	Arg	Ala	Gln	Thr
				725					730					735
Cys	Ser	Ala	Arg	Leu	Ser	Glu	Asp	Leu	Tyr	His	Arg	Cys	Leu	Gln
				740					745					750
Ser	Val	Leu	Glu	Gly	Leu	Gly	Ser	Arg	Thr	Gln	Leu	Ala	Met	Leu
				755					760					765
Leu	Phe	Glu	Gln	Glu	Gln	Gly	Asn	Ser	Thr					
				770					775					

<210> 327

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 327

tggaaggctg ccgcaacgac aatc 24

<210> 328
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 328
 ctgatgtggc cgatgttctg 20

<210> 329
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 329
 atggctcagt gtgcagacag 20

<210> 330
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 330
 gcatgctgct ccgtgaagta gtcc 24

<210> 331
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 331
 atgcatggga aagaaggcct gccc 24

<210> 332
 <211> 47
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 332
 tgcactggtg accacgaggg ggtgcactat agccatctgg agctgag 47

<210> 333
 <211> 1095
 <212> DNA
 <213> Homo sapiens

<400> 333
 gctctggccg gccccggcga ttggtcaccg cccgctaggg gacagccctg 50
 gcctcctctg attggcaagc gctggccacc tccccacacc cttgccaac 100
 gctcccctag tggagaaaag gagtagctat tagccaattc ggcagggccc 150
 gctttttaga agcttgattt cctttgaaga tgaaagacta gcggaagctc 200

P2730P1sequencelisting.txt

tgcctctttc cccagtgggc gaggggaactc ggggcgattg gctgggaact 250
 gtatccaccc aaatgtcacc gatttcttcc tatgcaggaa atgagcagac 300
 ccatcaataa gaaatttctc agcctggccg aaaatggttg gccccacgaa 350
 gccacgacaa ctggaggcaa agagggttgc tcaacgcccc gcctcattgg 400
 aaaaccaa atcagatctggg acctatatag cgtggcggag gcggggcgat 450
 gattgtcgcg ctgcaccca ctgcagctgc gcacagtcgc atttctttcc 500
 ccgcccctga gaccctgcag caccatctgt catggcggct gggctgtttg 550
 gtttgagcgc tcgccgtctt ttggcggcag cggcgacgcg agggctcccg 600
 gccgcccgcg tccgctggga atctagcttc tccaggactg tggtcgcccc 650
 gtccgctgtg gcgggaaagc ggccccaga accgaccaca ccgtggcaag 700
 aggaccaga acccgaggac gaaaacttgt atgagaagaa cccagactcc 750
 catggttatg acaaggaccc cgttttggac gtctggaaca tgcgacttgt 800
 cttcttcttt ggcgtctcca tcacctggt ccttggcagc acctttgtgg 850
 cctatctgcc tgactacagg atgaaagagt ggtcccgcg cgaagctgag 900
 aggcttgtga aataccgaga ggccaatggc cttcccatca tggaatccaa 950
 ctgcttcgac cccagcaaga tccagctgcc agaggatgag tgaccagttg 1000
 ctaagtgggg ctcaagaagc accgccttc ccaccccctg cctgccattc 1050
 tgacctcttc tcagagcacc taattaaagg ggctgaaagt ctgaa 1095

<210> 334

<211> 153

<212> PRT

<213> Homo sapiens

<400> 334

Met	Ala	Ala	Gly	Leu	Phe	Gly	Leu	Ser	Ala	Arg	Arg	Leu	Leu	Ala	1	5	10	15
Ala	Ala	Ala	Thr	Arg	Gly	Leu	Pro	Ala	Ala	Arg	Val	Arg	Trp	Glu	20	25	30	
Ser	Ser	Phe	Ser	Arg	Thr	Val	Val	Ala	Pro	Ser	Ala	Val	Ala	Gly	35	40	45	
Lys	Arg	Pro	Pro	Glu	Pro	Thr	Thr	Pro	Trp	Gln	Glu	Asp	Pro	Glu	50	55	60	
Pro	Glu	Asp	Glu	Asn	Leu	Tyr	Glu	Lys	Asn	Pro	Asp	Ser	His	Gly	65	70	75	
Tyr	Asp	Lys	Asp	Pro	Val	Leu	Asp	Val	Trp	Asn	Met	Arg	Leu	Val	80	85	90	
Phe	Phe	Phe	Gly	Val	Ser	Ile	Ile	Leu	Val	Leu	Gly	Ser	Thr	Phe	95	100	105	
Val	Ala	Tyr	Leu	Pro	Asp	Tyr	Arg	Met	Lys	Glu	Trp	Ser	Arg	Arg	110	115	120	
Glu	Ala	Glu	Arg	Leu	Val	Lys	Tyr	Arg	Glu	Ala	Asn	Gly	Leu	Pro				

125

130

135

Ile Met Glu Ser Asn Cys Phe Asp Pro Ser Lys Ile Gln Leu Pro
 140 145 150

Glu Asp Glu

<210> 335
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 335
 ggcggctggg ctgtttggtt tgagcgctcg ccgtcttttg gcggcagcgg 50
 cgacgcgagg gctcccgcc gcccgctcc gctgggaatc tagcttctcc 100
 aggactgtgg tcgccccgtc cgctgtggcg ggaaagcggc cccagaacc 150
 gaccacaccg tggcaagagg acccagaacc cgaggacgaa aacttgatg 200
 agaagaaccc agactcccat ggttatgaca aggaccccg tttggacgtc 250
 tggaacatgc gacttgcttt cttctttggc gtctccatca tcctggctct 300
 tggcagcacc tttgtggcct atctgcctga ctacaggatg aaagagtgg 350
 cccgccgcga agctgagagg cttgtgaaat accgagaggc caatggcctt 400
 cccatcatgg aatccaactg cttcgacccc agcaagatcc ag 442

<210> 336
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 336
 ctgagaccct gcagcaccat ctg 23

<210> 337
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 337
 ggtgcttctt gagccccact tagc 24

<210> 338
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 338
 aatctagctt ctccaggact gtggtcgccc cgtccgctgt 40

<210> 339
 <211> 2162
 <212> DNA

<213> Homo sapiens

<400> 339

```

gcgggcggtta tgccgcttgc tctgctcgtc ctgttgctcc tggggcccgg 50
cggctggtgc cttgcagaac ccccacgcga cagcctgcgg gaggaacttg 100
tcataccccc gctgccttcc ggggacgtag ccgccacatt ccagttccgc 150
acgcgctggg attcggagct tcagcgggaa ggagtgtccc attacaggct 200
ctttcccaaa gccctggggc agctgatctc caagtattct ctacgggagc 250
tgcacctgtc attcacacaa ggcttttggg ggacccgata ctggggggcca 300
cccttcctgc aggccccatc aggtgcagag ctgtgggtct ggttccaaga 350
cactgtcact gatgtggata aatcttggaa ggagctcagt aatgtcctct 400
cagggatctt ctgcgcctct ctcaacttca tcgactccac caacacagtc 450
actcccactg cctccttcaa acccctgggt ctggccaatg aactgacca 500
ctactttctg cgctatgctg tgctgccgcg ggaggtggtc tgcaccgaaa 550
acctcacccc ctggaagaag ctcttgccct gtagttccaa ggcaggcctc 600
tctgtgctgc tgaaggcaga tcgcttggtc cacaccagct accactccca 650
ggcagtgcac atccgccctg tttgcagaaa tgcacgctgt actagcatct 700
cctgggagct gaggcagacc ctgtcagttg tatttgatgc cttcatcacg 750
gggcagggaa agaaagactg gtccctcttc cggatgttct cccgaaccct 800
cacggagccc tgccccctgg cttcagagag ccgagtctat gtggacatca 850
ccacctacaa ccaggacaac gagacattag aggtgcaccc acccccgacc 900
actacatatc aggacgtcat cctaggcact cggaagacct atgccatcta 950
tgacttgctt gacaccgcca tgatcaacaa ctctcgaaac ctcaacatcc 1000
agctcaagtg gaagagaccc ccagagaatg aggccccccc agtgcccttc 1050
ctgcatgccc agcggtagct gagtggctat gggctgcaga agggggagct 1100
gagcacactg ctgtacaaca cccaccata ccgggccttc ccggtgctgc 1150
tgctggacac cgtaccctgg tatctgcggc tgtatgtgca caccctcacc 1200
atcacctcca agggcaagga gaacaaacca agttacatcc actaccagcc 1250
tgcccaggac cggctgcaac cccacctcct ggagatgctg attcagctgc 1300
cggccaactc agtcaccaag gtttccatcc agtttgagcg ggcgctgctg 1350
aagtggaccg agtacacgcc agatcctaac catggcttct atgtcagccc 1400
atctgtcctc agcgccttg tgcccagcat ggtagcagcc aagccagtgg 1450
actggaaga gagtcccctc ttcaacagcc tgttcccagt ctctgatggc 1500
tctaactact ttgtgcggct ctacacggag ccgctgctgg tgaacctgcc 1550
gacaccggac ttcagcatgc cctacaacgt gatctgcctc acgtgcactg 1600
tgggtggccgt gtgctacggc tccttctaca atctcctcac ccgaaccttc 1650

```

P2730P1sequencelisting.txt

cacatcgagg agccccgcac aggtggcctg gccaagcggc tggccaacct 1700
tatccggcgc gcccagaggtg tccccccact ctgattcttg ccctttccag 1750
cagctgcagc tgccgtttct ctctggggag gggagcccaa gggctgtttc 1800
tgccacttgc tctcctcaga gttgggctttt gaaccaaagt gccctggacc 1850
aggtcagggc ctacagctgt gttgtccagt acaggagcca cgagccaaat 1900
gtggcatttg aatttgaatt aacttagaaa ttcatttcct cacctgtagt 1950
ggccacctct atattgaggt gctcaataag caaaagtggc cggtggctgc 2000
tgtattggac agcacagaaa aagatttcca tcaccacaga aaggctcggc 2050
ggcagcactg gccaaggtga tgggggtgtgc tacacagtgt atgtcactgt 2100
gtagtggatg gagtttactg tttgtggaat aaaaacggc gtttccgtgg 2150
aaaaaaaaaa aa 2162

<210> 340

<211> 574

<212> PRT

<213> Homo sapiens

<400> 340

Met	Pro	Leu	Ala	Leu	Leu	Val	Leu	Leu	Leu	Leu	Gly	Pro	Gly	Gly	1	5	10	15
Trp	Cys	Leu	Ala	Glu	Pro	Pro	Arg	Asp	Ser	Leu	Arg	Glu	Glu	Leu	20	25	30	
Val	Ile	Thr	Pro	Leu	Pro	Ser	Gly	Asp	Val	Ala	Ala	Thr	Phe	Gln	35	40	45	
Phe	Arg	Thr	Arg	Trp	Asp	Ser	Glu	Leu	Gln	Arg	Glu	Gly	Val	Ser	50	55	60	
His	Tyr	Arg	Leu	Phe	Pro	Lys	Ala	Leu	Gly	Gln	Leu	Ile	Ser	Lys	65	70	75	
Tyr	Ser	Leu	Arg	Glu	Leu	His	Leu	Ser	Phe	Thr	Gln	Gly	Phe	Trp	80	85	90	
Arg	Thr	Arg	Tyr	Trp	Gly	Pro	Pro	Phe	Leu	Gln	Ala	Pro	Ser	Gly	95	100	105	
Ala	Glu	Leu	Trp	Val	Trp	Phe	Gln	Asp	Thr	Val	Thr	Asp	Val	Asp	110	115	120	
Lys	Ser	Trp	Lys	Glu	Leu	Ser	Asn	Val	Leu	Ser	Gly	Ile	Phe	Cys	125	130	135	
Ala	Ser	Leu	Asn	Phe	Ile	Asp	Ser	Thr	Asn	Thr	Val	Thr	Pro	Thr	140	145	150	
Ala	Ser	Phe	Lys	Pro	Leu	Gly	Leu	Ala	Asn	Asp	Thr	Asp	His	Tyr	155	160	165	
Phe	Leu	Arg	Tyr	Ala	Val	Leu	Pro	Arg	Glu	Val	Val	Cys	Thr	Glu	170	175	180	
Asn	Leu	Thr	Pro	Trp	Lys	Lys	Leu	Leu	Pro	Cys	Ser	Ser	Lys	Ala	185	190	195	

P2730P1sequencelisting.txt

Gly	Leu	Ser	Val	Leu	Leu	Lys	Ala	Asp	Arg	Leu	Phe	His	Thr	Ser	200	205	210
Tyr	His	Ser	Gln	Ala	Val	His	Ile	Arg	Pro	Val	Cys	Arg	Asn	Ala	215	220	225
Arg	Cys	Thr	Ser	Ile	Ser	Trp	Glu	Leu	Arg	Gln	Thr	Leu	Ser	Val	230	235	240
Val	Phe	Asp	Ala	Phe	Ile	Thr	Gly	Gln	Gly	Lys	Lys	Asp	Trp	Ser	245	250	255
Leu	Phe	Arg	Met	Phe	Ser	Arg	Thr	Leu	Thr	Glu	Pro	Cys	Pro	Leu	260	265	270
Ala	Ser	Glu	Ser	Arg	Val	Tyr	Val	Asp	Ile	Thr	Thr	Tyr	Asn	Gln	275	280	285
Asp	Asn	Glu	Thr	Leu	Glu	Val	His	Pro	Pro	Pro	Thr	Thr	Thr	Tyr	290	295	300
Gln	Asp	Val	Ile	Leu	Gly	Thr	Arg	Lys	Thr	Tyr	Ala	Ile	Tyr	Asp	305	310	315
Leu	Leu	Asp	Thr	Ala	Met	Ile	Asn	Asn	Ser	Arg	Asn	Leu	Asn	Ile	320	325	330
Gln	Leu	Lys	Trp	Lys	Arg	Pro	Pro	Glu	Asn	Glu	Ala	Pro	Pro	Val	335	340	345
Pro	Phe	Leu	His	Ala	Gln	Arg	Tyr	Val	Ser	Gly	Tyr	Gly	Leu	Gln	350	355	360
Lys	Gly	Glu	Leu	Ser	Thr	Leu	Leu	Tyr	Asn	Thr	His	Pro	Tyr	Arg	365	370	375
Ala	Phe	Pro	Val	Leu	Leu	Leu	Asp	Thr	Val	Pro	Trp	Tyr	Leu	Arg	380	385	390
Leu	Tyr	Val	His	Thr	Leu	Thr	Ile	Thr	Ser	Lys	Gly	Lys	Glu	Asn	395	400	405
Lys	Pro	Ser	Tyr	Ile	His	Tyr	Gln	Pro	Ala	Gln	Asp	Arg	Leu	Gln	410	415	420
Pro	His	Leu	Leu	Glu	Met	Leu	Ile	Gln	Leu	Pro	Ala	Asn	Ser	Val	425	430	435
Thr	Lys	Val	Ser	Ile	Gln	Phe	Glu	Arg	Ala	Leu	Leu	Lys	Trp	Thr	440	445	450
Glu	Tyr	Thr	Pro	Asp	Pro	Asn	His	Gly	Phe	Tyr	Val	Ser	Pro	Ser	455	460	465
Val	Leu	Ser	Ala	Leu	Val	Pro	Ser	Met	Val	Ala	Ala	Lys	Pro	Val	470	475	480
Asp	Trp	Glu	Glu	Ser	Pro	Leu	Phe	Asn	Ser	Leu	Phe	Pro	Val	Ser	485	490	495
Asp	Gly	Ser	Asn	Tyr	Phe	Val	Arg	Leu	Tyr	Thr	Glu	Pro	Leu	Leu	500	505	510
Val	Asn	Leu	Pro	Thr	Pro	Asp	Phe	Ser	Met	Pro	Tyr	Asn	Val	Ile	515	520	525
Cys	Leu	Thr	Cys	Thr	Val	Val	Ala	Val	Cys	Tyr	Gly	Ser	Phe	Tyr	530	535	540

P2730P1sequencelisting.txt

Asn Leu Leu Thr Arg Thr Phe His Ile Glu Glu Pro Arg Thr Gly
545 550 555

Gly Leu Ala Lys Arg Leu Ala Asn Leu Ile Arg Arg Ala Arg Gly
560 565 570

Val Pro Pro Leu

<210> 341

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 341

tggaacacgt accctggat ctgc 24

<210> 342

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<221> Artificial Sequence

<222> 1-24

<223> Synthetic oligonucleotide probe

<400> 342

ccaactctga ggagagcaag tggc 24

<210> 343

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 343

tgtatgtgca caccctcacc atcacctcca agggcaagga gaac 44

<210> 344

<211> 762

<212> DNA

<213> Homo sapiens

<400> 344

caacatgggg tccagcagct tcttggctct catggtgtct ctggttcttg 50

tgaccctggt ggctgtggaa ggagttaaag agggatataga gaaagcaggg 100

gtttgcccag ctgacaacgt acgctgcttc aagtccgatc ctccccagtg 150

tcacacagac caggactgtc tgggggaaag gaagtgttgt tacctgcact 200

gtggcttcaa gtgtgtgatt cctgtgaagg aactggaaga aggaggaaac 250

aaggatgaag atgtgtcaag gccataacct gagccaggat gggaggccaa 300

gtgtccaggc tcttctcta ccaggtgtcc tcagaaatga tgctgggtcc 350

tttctacctc tgggggtcac tctcacttgg cacctgcccc tgagggtcct 400

gagacttggg atatggaaga agcaataccc aacccaccca aagaaaacct 450

P2730P1sequencelisting.txt

gagcttgaag tccttttccc caaaaagagg gaagagtcac aaaaagtcca 500
gaccccaggg acggtacttt ccctctctac ctggtgctcc tccctaatagc 550
tcatgaatgg acccctcatg aatgaaacca gtgcccttat aagagacccc 600
aaagagctgc cttgcccttc tgcaatgtgt gatcacagct agaaggcact 650
gtcagagaag agaaactggc cctcaccaga tgctgaatct gctggtgcct 700
tgatcttggc cttcccagcc tctagaactg taagaaataa atatttgctg 750
tttataatcc aa 762

<210> 345
<211> 111
<212> PRT
<213> Homo sapiens

<400> 345
Met Gly Ser Ser Ser Phe Leu Val Leu Met Val Ser Leu Val Leu
1 5 10 15
Val Thr Leu Val Ala Val Glu Gly Val Lys Glu Gly Ile Glu Lys
20 25 30
Ala Gly Val Cys Pro Ala Asp Asn Val Arg Cys Phe Lys Ser Asp
35 40 45
Pro Pro Gln Cys His Thr Asp Gln Asp Cys Leu Gly Glu Arg Lys
50 55 60
Cys Cys Tyr Leu His Cys Gly Phe Lys Cys Val Ile Pro Val Lys
65 70 75
Glu Leu Glu Glu Gly Gly Asn Lys Asp Glu Asp Val Ser Arg Pro
80 85 90
Tyr Pro Glu Pro Gly Trp Glu Ala Lys Cys Pro Gly Ser Ser Ser
95 100 105
Thr Arg Cys Pro Gln Lys
110

<210> 346
<211> 2528
<212> DNA
<213> Homo sapiens

<400> 346
aaactcagca cttgccggag tggctcattg ttaagacaaa ggggtgtgcac 50
ttcctggcca ggaaacctga gcggtgagac tcccagctgc ctacatcaag 100
gccccaggac atgcagaacc ttcctctaga acccgacca ccaccatgag 150
gtcctgcctg tggagatgca ggcacctgag ccaaggcgtc cagtggctct 200
tgcttctggc tgccttggtc ttctttctct tcgccttgcc ctcttttatt 250
aaggagcctc aaacaaagcc ttccaggcat caacgcacag agaacattaa 300
agaaaggtct ctacagtccc tggcaaagcc taagtcccag gcaccacaaa 350
gggcgaggag gacaaccatc tatgcagagc cagcgccaga gaacaatgcc 400
ctcaacacac aaaccagcc caaggccac accaccggag acagaggaaa 450

P2730P1sequencelisting.txt

ggaggccaac caggcaccgc cggaggagca ggacaaggtg cccacacag 500
 cacagagggc agcatggaag agcccagaaa aagagaaaac catggtgaac 550
 acactgtcac ccagagggca agatgcaggg atggcctctg gcaggacaga 600
 ggcacaatca tggaagagcc aggacacaaa gacgaccaa ggaaatgggg 650
 gccagaccag gaagctgacg gcctccagga cgggtgtcaga gaagcaccag 700
 ggcaaagcgg caaccacagc caagacgctc attcccaaaa gtcagcacag 750
 aatgctggct cccacaggag cagtgtcaac aaggacgaga cagaaaggag 800
 tgaccacagc agtcatccca cctaaggaga agaaacctca ggccacccca 850
 cccctgccc ctttccagag cccacgacg cagagaaacc aaagactgaa 900
 ggccgccaac ttcaaactctg agcctcgggtg ggattttgag gaaaaatata 950
 gcttcgaaat aggaggcctt cagacgactt gccctgactc tgtgaagatc 1000
 aaagcctcca agtcgctgtg gctccagaaa ctctttctgc ccaacctcac 1050
 tctcttctg gactccagac acttcaacca gagtgagtgg gaccgcctgg 1100
 aacactttgc accacccttt ggcttcatgg agctcaacta ctcttggtg 1150
 cagaaggctg tgacacgctt cctccagtg cccagcagc agctgctct 1200
 ggccagcctc cccgctggga gcctccgggtg catcacctgt gccgtggtgg 1250
 gcaacggggg catcctgaac aactcccaca tgggccagga gatagacagt 1300
 cacgactacg tgttccgatt gagcggagct ctcatataag gctacgaaca 1350
 ggatgtgggg actcggacat ctttctacgg ctttaccgcc ttctccctga 1400
 cccagtcact ctttatattg ggcaatcggg gtttcaagaa cgtgcctctt 1450
 gggaaggacg tccgctactt gcacttcctg gaaggcaccg gggactatga 1500
 gtggctggaa gcactgctta tgaatcagac ggtgatgtca aaaaaccttt 1550
 tctggttcag gcacagaccc caggaagctt ttcgggaagc cctgcacatg 1600
 gacaggtacc tgttgctgca cccagacttt ctccgataca tgaagaacag 1650
 gtttctgagg tctaagaccc tggatggtgc ccactggagg atataccgcc 1700
 ccaccactgg ggccctcctg ctgctcactg cccttcagct ctgtgaccag 1750
 gtgagtgttt atggcttcat cactgagggc catgagcgtt tttctgatca 1800
 ctactatgat acatcatgga agcggctgat cttttacata aaccatgact 1850
 tcaagctgga gagagaagtc tggaagcggc tacacgatga agggataatc 1900
 cggctgtacc agcgtcctgg tcccggaaact gccaaagcca agaactgacc 1950
 ggggccaggg ctgccatggt ctcttgctt gctccaaggc acaggataca 2000
 gtgggaatct tgagactctt tggccatttc ccatggctca gactaagctc 2050
 caagcccttc aggagtcca agggaacact tgaacctgga acaagactct 2100
 ctcaagatgg caaatggcta attgaggttc tgaagttctt cagtacattg 2150

P2730P1sequencelisting.txt

ctgtaggtcc tgaggccagg gatttttaat taaatggggt gatgggtggc 2200
 caataccaca attcctgctg aaaaacactc ttccagtcca aaagcttctt 2250
 gatacagaaa aaagagcctg gatttacaga aacatataga tctgggtttga 2300
 attccagatc gagtttacag ttgtgaaatc ttgaaggat tactttaactt 2350
 cactacagat tgtctagaag acctttctag gagttatctg attctagaag 2400
 ggtctatact tgccttgtc ttttaagctat ttgacaactc tacgtgttgt 2450
 agaaaactga taataatata aatgattgtt gtccatggaa aggcaaataa 2500
 attttctaca gtgaaaaaaaa aaaaaaaaa 2528

<210> 347

<211> 600

<212> PRT

<213> Homo sapiens

<400> 347

Met	Arg	Ser	Cys	Leu	Trp	Arg	Cys	Arg	His	Leu	Ser	Gln	Gly	Val	1	5	10	15
Gln	Trp	Ser	Leu	Leu	Leu	Ala	Val	Leu	Val	Phe	Phe	Leu	Phe	Ala	20	25	30	
Leu	Pro	Ser	Phe	Ile	Lys	Glu	Pro	Gln	Thr	Lys	Pro	Ser	Arg	His	35	40	45	
Gln	Arg	Thr	Glu	Asn	Ile	Lys	Glu	Arg	Ser	Leu	Gln	Ser	Leu	Ala	50	55	60	
Lys	Pro	Lys	Ser	Gln	Ala	Pro	Thr	Arg	Ala	Arg	Arg	Thr	Thr	Ile	65	70	75	
Tyr	Ala	Glu	Pro	Ala	Pro	Glu	Asn	Asn	Ala	Leu	Asn	Thr	Gln	Thr	80	85	90	
Gln	Pro	Lys	Ala	His	Thr	Thr	Gly	Asp	Arg	Gly	Lys	Glu	Ala	Asn	95	100	105	
Gln	Ala	Pro	Pro	Glu	Glu	Gln	Asp	Lys	Val	Pro	His	Thr	Ala	Gln	110	115	120	
Arg	Ala	Ala	Trp	Lys	Ser	Pro	Glu	Lys	Glu	Lys	Thr	Met	Val	Asn	125	130	135	
Thr	Leu	Ser	Pro	Arg	Gly	Gln	Asp	Ala	Gly	Met	Ala	Ser	Gly	Arg	140	145	150	
Thr	Glu	Ala	Gln	Ser	Trp	Lys	Ser	Gln	Asp	Thr	Lys	Thr	Thr	Gln	155	160	165	
Gly	Asn	Gly	Gly	Gln	Thr	Arg	Lys	Leu	Thr	Ala	Ser	Arg	Thr	Val	170	175	180	
Ser	Glu	Lys	His	Gln	Gly	Lys	Ala	Ala	Thr	Thr	Ala	Lys	Thr	Leu	185	190	195	
Ile	Pro	Lys	Ser	Gln	His	Arg	Met	Leu	Ala	Pro	Thr	Gly	Ala	Val	200	205	210	
Ser	Thr	Arg	Thr	Arg	Gln	Lys	Gly	Val	Thr	Thr	Ala	Val	Ile	Pro	215	220	225	

P2730P1sequencelisting.txt

Pro Lys Glu Lys	Lys 230	Pro Gln Ala Thr	Pro 235	Pro Pro Pro Ala Pro	Phe 240
Gln Ser Pro Thr	Thr 245	Gln Arg Asn Gln	Arg 250	Leu Lys Ala Ala	Asn 255
Phe Lys Ser Glu	Pro 260	Arg Trp Asp Phe	Glu 265	Glu Lys Tyr Ser	Phe 270
Glu Ile Gly Gly	Leu 275	Gln Thr Thr Cys	Pro 280	Asp Ser Val Lys	Ile 285
Lys Ala Ser Lys	Ser 290	Leu Trp Leu Gln	Lys 295	Leu Phe Leu Pro	Asn 300
Leu Thr Leu Phe	Leu 305	Asp Ser Arg His	Phe 310	Asn Gln Ser Glu	Trp 315
Asp Arg Leu Glu	His 320	Phe Ala Pro Pro	Phe 325	Gly Phe Met Glu	Leu 330
Asn Tyr Ser Leu	Val 335	Gln Lys Val Val	Thr 340	Arg Phe Pro Pro	Val 345
Pro Gln Gln Gln	Leu 350	Leu Leu Ala Ser	Leu 355	Pro Ala Gly Ser	Leu 360
Arg Cys Ile Thr	Cys 365	Ala Val Val Gly	Asn 370	Gly Gly Ile Leu	Asn 375
Asn Ser His Met	Gly 380	Gln Glu Ile Asp	Ser 385	His Asp Tyr Val	Phe 390
Arg Leu Ser Gly	Ala 395	Leu Ile Lys Gly	Tyr 400	Glu Gln Asp Val	Gly 405
Thr Arg Thr Ser	Phe 410	Tyr Gly Phe Thr	Ala 415	Phe Ser Leu Thr	Gln 420
Ser Leu Leu Ile	Leu 425	Gly Asn Arg Gly	Phe 430	Lys Asn Val Pro	Leu 435
Gly Lys Asp Val	Arg 440	Tyr Leu His Phe	Leu 445	Glu Gly Thr Arg	Asp 450
Tyr Glu Trp Leu	Glu 455	Ala Leu Leu Met	Asn 460	Gln Thr Val Met	Ser 465
Lys Asn Leu Phe	Trp 470	Phe Arg His Arg	Pro 475	Gln Glu Ala Phe	Arg 480
Glu Ala Leu His	Met 485	Asp Arg Tyr Leu	Leu 490	Leu His Pro Asp	Phe 495
Leu Arg Tyr Met	Lys 500	Asn Arg Phe Leu	Arg 505	Ser Lys Thr Leu	Asp 510
Gly Ala His Trp	Arg 515	Ile Tyr Arg Pro	Thr 520	Thr Gly Ala Leu	Leu 525
Leu Leu Thr Ala	Leu 530	Gln Leu Cys Asp	Gln 535	Val Ser Ala Tyr	Gly 540
Phe Ile Thr Glu	Gly 545	His Glu Arg Phe	Ser 550	Asp His Tyr Tyr	Asp 555
Thr Ser Trp Lys	Arg 560	Leu Ile Phe Tyr	Ile 565	Asn His Asp Phe	Lys 570

P2730P1sequencelisting.txt

Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly Ile Ile
575 580 585

Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys Asn
590 595 600

<210> 348
<211> 496
<212> DNA
<213> Homo sapiens

<400> 348
cgatgcgcgg acccgggcac cccctcctcc tggggctgct gctgggtgctg 50
gggccttcgc cggagcagcg agtggaaatt gttcctcgag atctgaggat 100
gaaggacaag tttctaaac accttacagg cctcttttat tttagtccaa 150
agtgcagcaa acatttccat agactttatc acaacaccag agactgcacc 200
attcctgcat actataaaag atgcgccagg cttcttacct ggctggctgt 250
cagtccagtg tgcattggagg ataagtgagc agaccgtaca ggagcagcac 300
accaggagcc atgagaagtg ccttggaac caacagggaa acagaactat 350
ctttatacac atccccctcat ggacaagaga tttatTTTTTg cagacagact 400
cttcataag tcctttgagt tttgtatgtt gttgacagtt tgcagatata 450
tattcgataa atcagtgtac ttgacagtgt tatctgtcac ttattt 496

<210> 349
<211> 91
<212> PRT
<213> Homo sapiens

<400> 349
Met Arg Gly Pro Gly His Pro Leu Leu Leu Gly Leu Leu Leu Val
1 5 10 15
Leu Gly Pro Ser Pro Glu Gln Arg Val Glu Ile Val Pro Arg Asp
20 25 30
Leu Arg Met Lys Asp Lys Phe Leu Lys His Leu Thr Gly Pro Leu
35 40 45
Tyr Phe Ser Pro Lys Cys Ser Lys His Phe His Arg Leu Tyr His
50 55 60
Asn Thr Arg Asp Cys Thr Ile Pro Ala Tyr Tyr Lys Arg Cys Ala
65 70 75
Arg Leu Leu Thr Arg Leu Ala Val Ser Pro Val Cys Met Glu Asp
80 85 90
Lys

<210> 350
<211> 1141
<212> DNA
<213> Homo sapiens

<400> 350
gggctgggcc ccgccgcagc tccagctggc cggcttggtc ctgcggtccc 50

P2730P1sequencelisting.txt

```

ttctctggga ggccccgaccc cggccgcgcc cagccccac catgccaccc 100
gcggggctcc gccgggccgc gccgctcacc gcaatcgctc tggtgggtgct 150
gggggctccc ctggtgctgg ccggcgagga ctgcctgtgg tacctggacc 200
ggaatggctc ctggcatccg gggtttaact gcgagttctt caccttctgc 250
tgcgggacct gctaccatcg gtactgctgc agggacctga ccttgcttat 300
caccgagagg cagcagaagc actgcctggc cttcagcccc aagaccatag 350
caggcatcgc ctcagctgtg atcctctttg ttgctgtggt tgccaccacc 400
atctgctgct tcctctgttc ctgttgctac ctgtaccgcc ggcgccagca 450
gctccagagc ccatttgaag gccaggagat tccaatgaca ggcattcccag 500
tgcagccagt atacccatac cccaggacc ccaaagctgg ccctgcaccc 550
ccacagcctg gcttcatgta cccacctagt ggtcctgctc cccaatatcc 600
actctacca gctgggcccc cagtctacaa ccctgcagct cctcctccct 650
atatgccacc acagccctct taccgggag cctgaggaac cagccatgtc 700
tctgctgccc cttcagtgat gccaaccttg ggagatgccc tcctcctgta 750
cctgcatctg gtcctggggg tggcaggagt cctccagcca ccaggcccca 800
gaccaagcca agccctgggc cttactgggg acagagcccc aggggaagtgg 850
aacaggagct gaactagaac tatgaggggt tggggggagg gcttggaatt 900
atgggctatt tttactgggg gcaagggagg gagatgacag cctgggtcac 950
agtgcctgtt ttcaaatagt ccctctgctc ccaagatccc agccaggaag 1000
gctggggccc tactgtttgt cccctctggg ctgggggtggg gggagggagg 1050
aggttccgct agcagctggc agtagccctc ctctctggct gccccactgg 1100
ccacatctct ggctgctag attaaagctg taaagacaaa a 1141

```

<210> 351

<211> 197

<212> PRT

<213> Homo sapiens

<400> 351

```

Met Pro Pro Ala Gly Leu Arg Arg Ala Ala Pro Leu Thr Ala Ile
 1          5          10          15
Ala Leu Leu Val Leu Gly Ala Pro Leu Val Leu Ala Gly Glu Asp
          20          25          30
Cys Leu Trp Tyr Leu Asp Arg Asn Gly Ser Trp His Pro Gly Phe
          35          40          45
Asn Cys Glu Phe Phe Thr Phe Cys Cys Gly Thr Cys Tyr His Arg
          50          55          60
Tyr Cys Cys Arg Asp Leu Thr Leu Leu Ile Thr Glu Arg Gln Gln
          65          70          75
Lys His Cys Leu Ala Phe Ser Pro Lys Thr Ile Ala Gly Ile Ala
          80          85          90

```


P2730P1sequencelisting.txt

```

Ser Ala Val Ile Leu Phe Val Ala Val Val Ala Thr Thr Ile Cys
          95          100          105
Cys Phe Leu Cys Ser Cys Cys Tyr Leu Tyr Arg Arg Arg Gln Gln
          110          115          120
Leu Gln Ser Pro Phe Glu Gly Gln Glu Ile Pro Met Thr Gly Ile
          125          130          135
Pro Val Gln Pro Val Tyr Pro Tyr Pro Gln Asp Pro Lys Ala Gly
          140          145          150
Pro Ala Pro Pro Gln Pro Gly Phe Met Tyr Pro Pro Ser Gly Pro
          155          160          165
Ala Pro Gln Tyr Pro Leu Tyr Pro Ala Gly Pro Pro Val Tyr Asn
          170          175          180
Pro Ala Ala Pro Pro Pro Tyr Met Pro Pro Gln Pro Ser Tyr Pro
          185          190          195

```

Gly Ala

<210> 352
 <211> 3226
 <212> DNA
 <213> Homo sapiens

<400> 352
 gggggagcta ggccggcggc agtggtggtg gcggcggcgc aagggtgagg 50
 gcggccccag aacccaggt aggtagagca agaagatggt gtttctgccc 100
 ctcaaatggt cccttgcaac catgtcattt ctactttcct cactgttggc 150
 tctcttaact gtgtccactc cttcatggtg tcagagcact gaagcatctc 200
 caaaacgtag tgatgggaca ccatttcctt ggaataaaat acgacttcct 250
 gagtacgtca tcccagttca ttatgatctc ttgatccatg caaaccttac 300
 cacgctgacc ttctggggaa ccacgaaagt agaaatcaca gccagtcagc 350
 ccaccagcac catcatcctg catagtcacc acctgcagat atctagggcc 400
 accctcagga agggagctgg agagaggcta tcggaagaac ccctgcaggt 450
 cctggaacac cccctcagg agcaaattgc actgctggct cccgagcccc 500
 tccttgctcg gctcccgtac acagttgtca ttcactatgc tggcaatctt 550
 tcggagactt tccacggatt ttacaaaagc acctacagaa ccaaggaagg 600
 ggaactgagg atactagcat caacacaatt tgaaccact gcagctagaa 650
 tggcctttcc ctgctttgat gaacctgcct tcaaagcaag tttctcaatc 700
 aaaattagaa gagagccaag gcacctagcc atctccaata tgccattggt 750
 gaaatctgtg actgttgctg aaggactcat agaagaccat tttgatgtca 800
 ctgtgaagat gagcacctat ctggtggcct tcatcatttc agattttgag 850
 tctgtcagca agataaccaa gagggtgagtc aagggttctg tttatgctgt 900
 gccagacaag ataaatcaag cagattatgc actggatgct gcggtgactc 950

P2730P1sequencelisting.txt

ttctagaatt ttatgaggat tatttcagca taccgtatcc cctacccaaa 1000
 caagatcttg ctgctattcc cgactttcag tctggtgcta tggaaaactg 1050
 gggactgaca acatatagag aatctgctct gttgtttgat gcagaaaagt 1100
 cttctgcac aagtaagctt ggcacacag tgactgtggc ccatgaactg 1150
 gcccaccagt ggtttgggaa cctggtcact atggaatggt ggaatgatct 1200
 ttggctaaat gaaggatttg ccaaatttat ggagtttgtg tctgtcagt 1250
 tgacccatcc tgaactgaaa gttggagatt atttctttgg caaatgtttt 1300
 gacgcaatgg aggtagatgc tttaaattcc tcacaccctg tgtctacacc 1350
 tgttgaaaat cctgctcaga tccgggagat gtttgatgat gtttcttatg 1400
 ataagggagc ttgtattctg aatatgctaa gggagtatct tagcgctgac 1450
 gcatttaaaa gtggtattgt acagtatctc cagaagcata gctataaaaa 1500
 tacaaaaaac gaggacctgt gggatagtat ggcaagtatt tgccctacag 1550
 atggtgtaaa agggatggat ggcttttgcct ctagaagtca acattcatct 1600
 tcatcctcac attggcatca ggaaggggtg gatgtgaaaa ccatgatgaa 1650
 cacttgga ca ctgcagaggg gttttccct aataaccatc acagtgaggg 1700
 ggaggaatgt acacatgaag caagagcact acatgaaggg ctctgacggc 1750
 gccccggaca ctgggtacct gtggcatggt ccattgacat tcatcaccag 1800
 caaatccaac atggtccatc gatttttgcct aaaaacaaaa acagatgtgc 1850
 tcatcctccc agaagagggtg gaatggatca aatttaatgt gggcatgaat 1900
 ggctattaca ttgtgcatta cgaggatgat ggatgggact ctttgactgg 1950
 ctttttaaaa ggaacacaca cagcagtcag cagtaatgat cgggcaagtc 2000
 tcattaacaa tgcatttcag ctcgtcagca ttgggaagct gtccattgaa 2050
 aaggccttg atttatccct gtacttgaaa catgaaactg aaattatgcc 2100
 cgtgtttcaa ggtttgaatg agctgattcc tatgtataag ttaatggaga 2150
 aaagagatat gaatgaagt gaaactcaat tcaaggcctt cctcatcagg 2200
 ctgctaaggg acctcattga taagcagaca tggacagacg agggctcagt 2250
 ctgagagcaa atgctgcgga gtgaactact actcctcgcc tgtgtgcaca 2300
 actatcagcc gtgcgtacag agggcagaag gctatttcag aaagtggaag 2350
 gaatccaatg gaaacttgag cctgcctgtc gacgtgacct tggcagtgtt 2400
 tgctgtgggg gccagagca cagaaggctg ggattttctt tatagtaaat 2450
 atcagttttc tttgtccagt actgagaaaa gccaaattga atttgccctc 2500
 tgcagaaccc aaaataagga aaagcttcaa tggctactag atgaaagctt 2550
 taaggagat aaaataaaaa ctcaggagtt tccacaaatt cttacactca 2600
 ttggcaggaa cccagtagga taccactgg cctggcaatt tctgaggaaa 2650

P2730P1sequencelisting.txt

aactggaaca aacttgtaga aaagtttgaa cttggctcat cttccatagc 2700
ccacatggta atgggtacaa caaatcaatt ctccacaaga acacggcttg 2750
aagaggtaaa aggattcttc agctctttga aagaaaatgg ttctcagctc 2800
cgttgtgtcc aacagacaat tgaaaccatt gaagaaaaca tcggttgat 2850
ggataagaat tttgataaaa tcagagtgtg gctgcaaagt gaaaagcttg 2900
aacgtatgta aaaattcctc ccttgcccgg ttctgttat ctctaatac 2950
caacattttg ttgagtgtat tttcaacta gagatggctg ttttgctcc 3000
aactggagat acttttttcc cttcaactca ttttttgact atccctgtga 3050
aaagaatagc tgtagttttt tcatgaatgg gctttttcat gaatgggcta 3100
tcgctaccat gtgttttgtt catcacaggt gttgccctgc aacgtaaacc 3150
caagtgttgg gttccctgcc acagaagaat aaagtacctt attcttctca 3200
aaaaaaaaa aaaaaaaaaa aaaaaa 3226

<210> 353
<211> 941
<212> PRT
<213> Homo sapiens

<400> 353
Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe
1 5 10 15
Leu Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser
20 25 30
Trp Cys Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr
35 40 45
Pro Phe Pro Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro
50 55 60
Val His Tyr Asp Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr
65 70 75
Phe Trp Gly Thr Thr Lys Val Glu Ile Thr Ala Ser Gln Pro Thr
80 85 90
Ser Thr Ile Ile Leu His Ser His His Leu Gln Ile Ser Arg Ala
95 100 105
Thr Leu Arg Lys Gly Ala Gly Glu Arg Leu Ser Glu Glu Pro Leu
110 115 120
Gln Val Leu Glu His Pro Pro Gln Glu Gln Ile Ala Leu Leu Ala
125 130 135
Pro Glu Pro Leu Leu Val Gly Leu Pro Tyr Thr Val Val Ile His
140 145 150
Tyr Ala Gly Asn Leu Ser Glu Thr Phe His Gly Phe Tyr Lys Ser
155 160 165
Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile Leu Ala Ser Thr
170 175 180
Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro Cys Phe Asp
185 190 195

P2730P1sequencelisting.txt

Glu	Pro	Ala	Phe	Lys	Ala	Ser	Phe	Ser	Ile	Lys	Ile	Arg	Arg	Glu	200	205	210
Pro	Arg	His	Leu	Ala	Ile	Ser	Asn	Met	Pro	Leu	Val	Lys	Ser	Val	215	220	225
Thr	Val	Ala	Glu	Gly	Leu	Ile	Glu	Asp	His	Phe	Asp	Val	Thr	Val	230	235	240
Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Phe	Ile	Ile	Ser	Asp	Phe	Glu	245	250	255
Ser	Val	Ser	Lys	Ile	Thr	Lys	Ser	Gly	Val	Lys	Val	Ser	Val	Tyr	260	265	270
Ala	Val	Pro	Asp	Lys	Ile	Asn	Gln	Ala	Asp	Tyr	Ala	Leu	Asp	Ala	275	280	285
Ala	Val	Thr	Leu	Leu	Glu	Phe	Tyr	Glu	Asp	Tyr	Phe	Ser	Ile	Pro	290	295	300
Tyr	Pro	Leu	Pro	Lys	Gln	Asp	Leu	Ala	Ala	Ile	Pro	Asp	Phe	Gln	305	310	315
Ser	Gly	Ala	Met	Glu	Asn	Trp	Gly	Leu	Thr	Thr	Tyr	Arg	Glu	Ser	320	325	330
Ala	Leu	Leu	Phe	Asp	Ala	Glu	Lys	Ser	Ser	Ala	Ser	Ser	Lys	Leu	335	340	345
Gly	Ile	Thr	Val	Thr	Val	Ala	His	Glu	Leu	Ala	His	Gln	Trp	Phe	350	355	360
Gly	Asn	Leu	Val	Thr	Met	Glu	Trp	Trp	Asn	Asp	Leu	Trp	Leu	Asn	365	370	375
Glu	Gly	Phe	Ala	Lys	Phe	Met	Glu	Phe	Val	Ser	Val	Ser	Val	Thr	380	385	390
His	Pro	Glu	Leu	Lys	Val	Gly	Asp	Tyr	Phe	Phe	Gly	Lys	Cys	Phe	395	400	405
Asp	Ala	Met	Glu	Val	Asp	Ala	Leu	Asn	Ser	Ser	His	Pro	Val	Ser	410	415	420
Thr	Pro	Val	Glu	Asn	Pro	Ala	Gln	Ile	Arg	Glu	Met	Phe	Asp	Asp	425	430	435
Val	Ser	Tyr	Asp	Lys	Gly	Ala	Cys	Ile	Leu	Asn	Met	Leu	Arg	Glu	440	445	450
Tyr	Leu	Ser	Ala	Asp	Ala	Phe	Lys	Ser	Gly	Ile	Val	Gln	Tyr	Leu	455	460	465
Gln	Lys	His	Ser	Tyr	Lys	Asn	Thr	Lys	Asn	Glu	Asp	Leu	Trp	Asp	470	475	480
Ser	Met	Ala	Ser	Ile	Cys	Pro	Thr	Asp	Gly	Val	Lys	Gly	Met	Asp	485	490	495
Gly	Phe	Cys	Ser	Arg	Ser	Gln	His	Ser	Ser	Ser	Ser	Ser	His	Trp	500	505	510
His	Gln	Glu	Gly	Val	Asp	Val	Lys	Thr	Met	Met	Asn	Thr	Trp	Thr	515	520	525
Leu	Gln	Arg	Gly	Phe	Pro	Leu	Ile	Thr	Ile	Thr	Val	Arg	Gly	Arg			

P2730P1sequencelisting.txt

530		535		540
Asn Val His Met	Lys 545	Gln Glu His Tyr	Met 550	Lys Gly Ser Asp Gly 555
Ala Pro Asp Thr	Gly 560	Tyr Leu Trp His	Val 565	Pro Leu Thr Phe Ile 570
Thr Ser Lys Ser	Asn 575	Met Val His Arg	Phe 580	Leu Leu Lys Thr Lys 585
Thr Asp Val Leu	Ile 590	Leu Pro Glu Glu	Val 595	Glu Trp Ile Lys Phe 600
Asn Val Gly Met	Asn 605	Gly Tyr Tyr Ile	Val 610	His Tyr Glu Asp Asp 615
Gly Trp Asp Ser	Leu 620	Thr Gly Leu Leu	Lys 625	Gly Thr His Thr Ala 630
Val Ser Ser Asn	Asp 635	Arg Ala Ser Leu	Ile 640	Asn Asn Ala Phe Gln 645
Leu Val Ser Ile	Gly 650	Lys Leu Ser Ile	Glu 655	Lys Ala Leu Asp Leu 660
Ser Leu Tyr Leu	Lys 665	His Glu Thr Glu	Ile 670	Met Pro Val Phe Gln 675
Gly Leu Asn Glu	Leu 680	Ile Pro Met Tyr	Lys 685	Leu Met Glu Lys Arg 690
Asp Met Asn Glu	Val 695	Glu Thr Gln Phe	Lys 700	Ala Phe Leu Ile Arg 705
Leu Leu Arg Asp	Leu 710	Ile Asp Lys Gln	Thr 715	Trp Thr Asp Glu Gly 720
Ser Val Ser Glu	Gln 725	Met Leu Arg Ser	Glu 730	Leu Leu Leu Leu Ala 735
Cys Val His Asn	Tyr 740	Gln Pro Cys Val	Gln 745	Arg Ala Glu Gly Tyr 750
Phe Arg Lys Trp	Lys 755	Glu Ser Asn Gly	Asn 760	Leu Ser Leu Pro Val 765
Asp Val Thr Leu	Ala 770	Val Phe Ala Val	Gly 775	Ala Gln Ser Thr Glu 780
Gly Trp Asp Phe	Leu 785	Tyr Ser Lys Tyr	Gln 790	Phe Ser Leu Ser Ser 795
Thr Glu Lys Ser	Gln 800	Ile Glu Phe Ala	Leu 805	Cys Arg Thr Gln Asn 810
Lys Glu Lys Leu	Gln 815	Trp Leu Leu Asp	Glu 820	Ser Phe Lys Gly Asp 825
Lys Ile Lys Thr	Gln 830	Glu Phe Pro Gln	Ile 835	Leu Thr Leu Ile Gly 840
Arg Asn Pro Val	Gly 845	Tyr Pro Leu Ala	Trp 850	Gln Phe Leu Arg Lys 855
Asn Trp Asn Lys	Leu 860	Val Gln Lys Phe	Glu 865	Leu Gly Ser Ser Ser 870

P2730P1sequencelisting.txt

Ile	Ala	His	Met	Val	Met	Gly	Thr	Thr	Asn	Gln	Phe	Ser	Thr	Arg
				875					880					885
Thr	Arg	Leu	Glu	Glu	Val	Lys	Gly	Phe	Phe	Ser	Ser	Leu	Lys	Glu
				890					895					900
Asn	Gly	Ser	Gln	Leu	Arg	Cys	Val	Gln	Gln	Thr	Ile	Glu	Thr	Ile
				905					910					915
Glu	Glu	Asn	Ile	Gly	Trp	Met	Asp	Lys	Asn	Phe	Asp	Lys	Ile	Arg
				920					925					930
Val	Trp	Leu	Gln	Ser	Glu	Lys	Leu	Glu	Arg	Met				
				935					940					

<210> 354
 <211> 1587
 <212> DNA
 <213> Homo sapiens

<400> 354
 cagccacaga cgggtcatga gcgcggtatt actgctggcc ctcttggggt 50
 tcctcctccc actgccagga gtgcaggcgc tgctctgcca gtttgggaca 100
 gttcagcatg tgtggaagggt gtccgaccta ccccggaat ggaccctaa 150
 gaacaccagc tgcgacagcg gcttgggggtg ccaggacacg ttgatgtca 200
 ttgagagcgg accccaagtg agcctggtgc tctccaaggg ctgcacggag 250
 gccaaggacc aggagccccg cgtcactgag caccggatgg gccccggcct 300
 ctccctgata tctacacct tcgtgtgccg ccaggaggac ttctgcaaca 350
 acctcgtaa ctccctccc ctttggggcc cacagcccc agcagacca 400
 ggatccttga ggtgcccagt ctgcttgtct atggaaggct gtctggaggg 450
 gacaacagaa gagatctgcc ccaaggggac cacacactgt tatgatggcc 500
 tcctcaggct caggggagga ggcatttct ccaatctgag agtccaggga 550
 tgcattcccc agccagggtg caacctgctc aatgggacac aggaaattgg 600
 gcccggtgggt atgactgaga actgcaatag gaaagatttt ctgacctgtc 650
 atcgggggac caccattatg acacacggaa acttggctca agaaccact 700
 gattggacca catcgaatac cgagatgtgc gaggtggggc aggtgtgtca 750
 ggagacgctg ctgctcatag atgtaggact cacatcaacc ctggtgggga 800
 caaaaggctg cagcactgtt ggggctcaaa attcccagaa gaccaccatc 850
 cactcagccc ctcttgggggt gcttgtggcc tcctataccc acttctgctc 900
 ctcggaacctg tgcaatagtg ccagcagcag cagcgttctg ctgaactccc 950
 tccctcctca agctgcccct gtcccaggag accggcagtg tcctacctgt 1000
 gtgcagcccc ttggaacctg ttcaagtggc tcccccgaa tgacctgccc 1050
 caggggagcc actcattgtt atgatgggta cattcatctc tcaggagggtg 1100
 ggctgtccac caaaatgagc attcagggtt gcgtggcca acctccagc 1150
 ttcttgttga accacaccag acaaatcggg atcttctctg cgcgtgagaa 1200

P2730P1sequencelisting.txt

gcgtgatgtg cagcctcctg cctctcagca tgagggaggt ggggctgagg 1250
gcctggagtc tctcacttgg ggggtggggc tggcactggc cccagcgctg 1300
tggtggggag tggtttgccc ttcctgctaa ctctattacc cccacgattc 1350
ttcaccgctg ctgaccaccc acactcaacc tccctctgac ctcataacct 1400
aatggccttg gacaccagat tctttcccat tctgtccatg aatcatcttc 1450
cccacacaca atcattcata tctactcacc taacagcaac actggggaga 1500
gcctggagca tccggacttg ccctatggga gaggggacgc tggaggagtg 1550
gctgcatgta tctgataata cagaccctgt cctttca 1587

<210> 355
<211> 437
<212> PRT
<213> Homo sapiens

<400> 355
Met Ser Ala Val Leu Leu Leu Ala Leu Leu Gly Phe Ile Leu Pro
1 5 10 15
Leu Pro Gly Val Gln Ala Leu Leu Cys Gln Phe Gly Thr Val Gln
20 25 30
His Val Trp Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys
35 40 45
Asn Thr Ser Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met
50 55 60
Leu Ile Glu Ser Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly
65 70 75
Cys Thr Glu Ala Lys Asp Gln Glu Pro Arg Val Thr Glu His Arg
80 85 90
Met Gly Pro Gly Leu Ser Leu Ile Ser Tyr Thr Phe Val Cys Arg
95 100 105
Gln Glu Asp Phe Cys Asn Asn Leu Val Asn Ser Leu Pro Leu Trp
110 115 120
Ala Pro Gln Pro Pro Ala Asp Pro Gly Ser Leu Arg Cys Pro Val
125 130 135
Cys Leu Ser Met Glu Gly Cys Leu Glu Gly Thr Thr Glu Glu Ile
140 145 150
Cys Pro Lys Gly Thr Thr His Cys Tyr Asp Gly Leu Leu Arg Leu
155 160 165
Arg Gly Gly Gly Ile Phe Ser Asn Leu Arg Val Gln Gly Cys Met
170 175 180
Pro Gln Pro Gly Cys Asn Leu Leu Asn Gly Thr Gln Glu Ile Gly
185 190 195
Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe Leu Thr
200 205 210
Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn Leu Ala Gln
215 220 225

P2730P1sequencelisting.txt

Glu	Pro	Thr	Asp	Trp	Thr	Thr	Ser	Asn	Thr	Glu	Met	Cys	Glu	Val
				230					235					240
Gly	Gln	Val	Cys	Gln	Glu	Thr	Leu	Leu	Leu	Ile	Asp	Val	Gly	Leu
				245					250					255
Thr	Ser	Thr	Leu	Val	Gly	Thr	Lys	Gly	Cys	Ser	Thr	Val	Gly	Ala
				260					265					270
Gln	Asn	Ser	Gln	Lys	Thr	Thr	Ile	His	Ser	Ala	Pro	Pro	Gly	Val
				275					280					285
Leu	Val	Ala	Ser	Tyr	Thr	His	Phe	Cys	Ser	Ser	Asp	Leu	Cys	Asn
				290					295					300
Ser	Ala	Ser	Ser	Ser	Ser	Val	Leu	Leu	Asn	Ser	Leu	Pro	Pro	Gln
				305					310					315
Ala	Ala	Pro	Val	Pro	Gly	Asp	Arg	Gln	Cys	Pro	Thr	Cys	Val	Gln
				320					325					330
Pro	Leu	Gly	Thr	Cys	Ser	Ser	Gly	Ser	Pro	Arg	Met	Thr	Cys	Pro
				335					340					345
Arg	Gly	Ala	Thr	His	Cys	Tyr	Asp	Gly	Tyr	Ile	His	Leu	Ser	Gly
				350					355					360
Gly	Gly	Leu	Ser	Thr	Lys	Met	Ser	Ile	Gln	Gly	Cys	Val	Ala	Gln
				365					370					375
Pro	Ser	Ser	Phe	Leu	Leu	Asn	His	Thr	Arg	Gln	Ile	Gly	Ile	Phe
				380					385					390
Ser	Ala	Arg	Glu	Lys	Arg	Asp	Val	Gln	Pro	Pro	Ala	Ser	Gln	His
				395					400					405
Glu	Gly	Gly	Gly	Ala	Glu	Gly	Leu	Glu	Ser	Leu	Thr	Trp	Gly	Val
				410					415					420
Gly	Leu	Ala	Leu	Ala	Pro	Ala	Leu	Trp	Trp	Gly	Val	Val	Cys	Pro
				425					430					435

Ser Cys

<210> 356
 <211> 1238
 <212> DNA
 <213> Homo sapiens

<400> 356
 gcgacgggca ggacgccccg ttcgcctagc gcgtgctcag gagttggtgt 50
 cctgcctgcg ctcaggatga gggggaatct ggccctggtg ggcgttctaa 100
 tcagcctggc cttcctgtca ctgctgccat ctggacatcc tcagccggct 150
 ggcgatgacg cctgctctgt gcagatcctc gtccctggcc tcaaagggga 200
 tgcgggagag aaggagagaca aaggcgcccc cggacggcct ggaagagtcg 250
 gccccacggg agaaaaagga gacatggggg acaaaggaca gaaaggcagt 300
 gtgggtcgtc atggaaaaat tgggtccatt ggctctaaag gtgagaaagg 350
 agattccggt gacataggac cccctggtcc taatggagaa ccaggcctcc 400
 catgtgagtg cagccagctg cgcaaggcca tcggggagat ggacaaccag 450

P2730P1sequencelisting.txt

gtctctcagc tgaccagcga gctcaagttc atcaagaatg ctgtcgccgg 500
 tgtgcgcgag acggagagca agatctacct gctggtgaag gaggagaagc 550
 gctacgcgga cgcccagctg tcctgccagg gccgcggggg cacgctgagc 600
 atgcccagg acgaggctgc caatggcctg atggccgcat acctggcgca 650
 agccggcctg gcccgtgtct tcatcggcat caacgacctg gagaaggagg 700
 ggcgcttcgt gtactctgac cactcccca tgcggacctt caacaagtgg 750
 cgcagcggg agcccaacaa tgcctacgac gaggaggact gcgtggagat 800
 ggtggcctcg ggcggctgga acgacgtggc ctgccacacc accatgtact 850
 tcattgtgtga gtttgacaag gagaacatgt gagcctcagg ctggggctgc 900
 ccattggggg ccccatatgt ccctgcaggg ttggcaggga cagagcccag 950
 accatggtgc cagccaggga gctgtccctc tgtgaagggt ggaggctcac 1000
 tgagtagagg gctgttgtct aaactgagaa aatggcctat gcttaagagg 1050
 aaaatgaaag tgttcctggg gtgctgtctc tgaagaagca gagtttcatt 1100
 acctgtattg tagccccaat gtcattatgt aattattacc cagaattgct 1150
 cttccataaa gcttgtgcct ttgtccaagc tatacaataa aatctttaag 1200
 tagtgcagta gttaagtcca aaaaaaaaaa aaaaaaaaa 1238

<210> 357

<211> 271

<212> PRT

<213> Homo sapiens

<400> 357

Met	Arg	Gly	Asn	Leu	Ala	Leu	Val	Gly	Val	Leu	Ile	Ser	Leu	Ala
1				5					10					15
Phe	Leu	Ser	Leu	Leu	Pro	Ser	Gly	His	Pro	Gln	Pro	Ala	Gly	Asp
			20						25					30
Asp	Ala	Cys	Ser	Val	Gln	Ile	Leu	Val	Pro	Gly	Leu	Lys	Gly	Asp
			35						40					45
Ala	Gly	Glu	Lys	Gly	Asp	Lys	Gly	Ala	Pro	Gly	Arg	Pro	Gly	Arg
			50						55					60
Val	Gly	Pro	Thr	Gly	Glu	Lys	Gly	Asp	Met	Gly	Asp	Lys	Gly	Gln
			65						70					75
Lys	Gly	Ser	Val	Gly	Arg	His	Gly	Lys	Ile	Gly	Pro	Ile	Gly	Ser
			80						85					90
Lys	Gly	Glu	Lys	Gly	Asp	Ser	Gly	Asp	Ile	Gly	Pro	Pro	Gly	Pro
			95						100					105
Asn	Gly	Glu	Pro	Gly	Leu	Pro	Cys	Glu	Cys	Ser	Gln	Leu	Arg	Lys
			110						115					120
Ala	Ile	Gly	Glu	Met	Asp	Asn	Gln	Val	Ser	Gln	Leu	Thr	Ser	Glu
			125						130					135
Leu	Lys	Phe	Ile	Lys	Asn	Ala	Val	Ala	Gly	Val	Arg	Glu	Thr	Glu
			140						145					150

P2730P1sequencelisting.txt

Ser	Lys	Ile	Tyr	Leu	Leu	Val	Lys	Glu	Glu	Lys	Arg	Tyr	Ala	Asp
				155					160					165
Ala	Gln	Leu	Ser	Cys	Gln	Gly	Arg	Gly	Gly	Thr	Leu	Ser	Met	Pro
				170					175					180
Lys	Asp	Glu	Ala	Ala	Asn	Gly	Leu	Met	Ala	Ala	Tyr	Leu	Ala	Gln
				185					190					195
Ala	Gly	Leu	Ala	Arg	Val	Phe	Ile	Gly	Ile	Asn	Asp	Leu	Glu	Lys
				200					205					210
Glu	Gly	Ala	Phe	Val	Tyr	Ser	Asp	His	Ser	Pro	Met	Arg	Thr	Phe
				215					220					225
Asn	Lys	Trp	Arg	Ser	Gly	Glu	Pro	Asn	Asn	Ala	Tyr	Asp	Glu	Glu
				230					235					240
Asp	Cys	Val	Glu	Met	Val	Ala	Ser	Gly	Gly	Trp	Asn	Asp	Val	Ala
				245					250					255
Cys	His	Thr	Thr	Met	Tyr	Phe	Met	Cys	Glu	Phe	Asp	Lys	Glu	Asn
				260					265					270

Met

<210> 358
 <211> 972
 <212> DNA
 <213> Homo sapiens

<400> 358
 agtgactgca gccttcctag atcccccca ctcggtttct ctctttgcag 50
 gagcaccggc agcaccagtg tgtgagggga gcaggcagcg gtcctagcca 100
 gttccttgat cctgccagac caccagccc ccggcacaga gctgctccac 150
 aggcaccatg aggatcatgc tgctattcac agccatcctg gccttcagcc 200
 tagctcagag ctttggggct gtctgtaagg agccacagga ggaggtgggt 250
 cctggcgggg gccgcagcaa gagggatcca gatctctacc agctgctcca 300
 gagactcttc aaaagccact catctctgga gggattgctc aaagccctga 350
 gccaggctag cacagatcct aaggaatcaa catctcccga gaaacgtgac 400
 atgcatgact tctttgtggg acttatgggc aagaggagcg tccagccaga 450
 gggaaagaca ggacctttct taccttcagt gagggttcct cggccccctc 500
 atcccaatca gcttggatcc acaggaaagt cttccctggg aacagaggag 550
 cagagacctt tataagactc tcctacggat gtgaatcaag agaacgtccc 600
 cagctttggc atcctcaagt atcccccgag agcagaatag gtactccact 650
 tccggactcc tggactgcat taggaagacc tctttccctg tcccaatccc 700
 caggtgcgca cgctcctgtt accctttctc ttcctgttct ttgtaacatt 750
 cttgtgcttt gactccttct ccatcttttc tacctgaccc tgggtgtggaa 800
 actgcatagt gaatatcccc aaccccaatg ggcattgact gtagaatacc 850

P2730P1sequencelisting.txt

ctagagttcc tgtagtgtcc tacattaata atataatgtc tctctctatt 900
 cctcaacaat aaaggatttt tgcataatgaa aaaaaaaaaa aaaaaaaaaa 950
 aaaaaaaaaa aaaaaaaaaa aa 972

<210> 359
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 359
 Met Arg Ile Met Leu Leu Phe Thr Ala Ile Leu Ala Phe Ser Leu
 1 5 10 15
 Ala Gln Ser Phe Gly Ala Val Cys Lys Glu Pro Gln Glu Glu Val
 20 25 30
 Val Pro Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln
 35 40 45
 Leu Leu Gln Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu
 50 55 60
 Leu Lys Ala Leu Ser Gln Ala Ser Thr Asp Pro Lys Glu Ser Thr
 65 70 75
 Ser Pro Glu Lys Arg Asp Met His Asp Phe Phe Val Gly Leu Met
 80 85 90
 Gly Lys Arg Ser Val Gln Pro Glu Gly Lys Thr Gly Pro Phe Leu
 95 100 105
 Pro Ser Val Arg Val Pro Arg Pro Leu His Pro Asn Gln Leu Gly
 110 115 120
 Ser Thr Gly Lys Ser Ser Leu Gly Thr Glu Glu Gln Arg Pro Leu
 125 130 135

<210> 360
 <211> 1738
 <212> DNA
 <213> Homo sapiens

<400> 360
 gggcgtctcc ggctgctcct attgagctgt ctgctcgctg tgcccgtgt 50
 gcctgctgtg cccgcgtgt cgccgctgct accgcgtctg ctggacgcgg 100
 gagacgccag cgagctggtg attggagccc tgcggagagc tcaagcgccc 150
 agctctgccc caggagccca ggctgccccg tgagtcccat agttgctgca 200
 ggagtggagc catgagctgc gtcctgggtg gtgtcatccc cttggggctg 250
 ctgttcctgg tctgcggtac ccaaggctac ctctgcca acgtcactct 300
 cttagaggag ctgctcagca aataccagca caacgagtct cactcccggg 350
 tccgcagagc catccccagg gaggacaagg aggagatcct catgctgcac 400
 aacaagcttc ggggccagg gtagcctcag gcctccaaca tggagtacat 450
 ggtgagcgcc ggctccggcc gcagaggctg gcaccggggg tggggcctgg 500
 gccaccagcc tgctctgttc ccagccagc tctgttcccc agccagtgcg 550
 tgtgatggct ggctcagggt ctctctggc aggggaggat cccggctctg 600

P2730P1sequence1isting.txt

ttctgttttg tttgtttgtt ttgagacagg gtctcactct gccactgacg 650
ctggagtgca atggcacaat cgtcatgccc tgaaacctta gactcccggg 700
gttaagcgat cctgcttcag cctcccaagt agctggaact acaggcatgc 750
accatggtgc ccagctagat tttaaatatt ttgtggagat ggggggtcttg 800
ctacgttgcc caggctggtc ttgaactcct aggcctcaagc aatcctcctg 850
cctcagcctc tcaaagtgtc aggattatag gcatgagtca ccctgtctgg 900
ctctggctct gttcttaaca ttctgcaaaa acaacacacg tgggttcctt 950
gtgcagagcc tgcctcgttg ccttcatgtc actcttggtg gctccactgg 1000
gaacacagct ctcagccttt cccacctgga ggcagagtgg ggagggggccc 1050
agggctgggc tttgctgatg ctgatctcag ctgtgccaca cgctagctgc 1100
accaccctga cttctcctta gcccgtgtga gcctcacttt ccacttgag 1150
agtccttcct cgcgtgggtg ccatgactgt gagataagtc gaggctgtga 1200
agggcccggc acagactgac ctgcctcccc aaccctagg ctttgctaac 1250
cgggaaagga gctaacggtg acagaagaca gccaaggtca accctcccgg 1300
gtgattgtga tgggtgttcc aggtgtggtt gggcgatgct gctacttgac 1350
cccaagctcc agtgtggaaa cttccttcct ggctgggttt ccagaactac 1400
agaggaatgg accacagtct tccagggtcc ctctcgtcc accaaccggg 1450
agcctccacc ttggccatcc gtcagctatg aatggctttt taaacaaacc 1500
cacgtcccag cctgggtaac atggtaaagc cccgtctcta caaaaaaatc 1550
caagttagcc gggcatggtg gtgcgcacct gtagtcccag ctgcagtggg 1600
actgaggtgg aggtggaggt ggggggtggg agctgaggaa ggaggatcgc 1650
ttgagcctgg gaagtcgagg ctgcagtgag ctgagattgc accactgcac 1700
tccagcctgg gtgacagagc aagaccctgt ctcaaaaa 1738

<210> 361

<211> 159

<212> PRT

<213> Homo sapiens

<400> 361

Met	Ser	Cys	Val	Leu	Gly	Gly	Val	Ile	Pro	Leu	Gly	Leu	Leu	Phe
1				5					10					15
Leu	Val	Cys	Gly	Ser	Gln	Gly	Tyr	Leu	Leu	Pro	Asn	Val	Thr	Leu
				20					25					30
Leu	Glu	Glu	Leu	Leu	Ser	Lys	Tyr	Gln	His	Asn	Glu	Ser	His	Ser
				35					40					45
Arg	Val	Arg	Arg	Ala	Ile	Pro	Arg	Glu	Asp	Lys	Glu	Glu	Ile	Leu
				50					55					60
Met	Leu	His	Asn	Lys	Leu	Arg	Gly	Gln	Val	Gln	Pro	Gln	Ala	Ser
				65					70					75

P2730P1sequencelisting.txt

Asn Met Glu Tyr Met Val Ser Ala Gly Ser Gly Arg Arg Gly Trp
80 85 90
His Arg Gly Trp Gly Leu Gly His Gln Pro Ala Leu Phe Pro Ser
95 100 105
Gln Leu Cys Ser Pro Ala Ser Ala Cys Asp Gly Trp Leu Arg Val
110 115 120
Ser Ser Gly Arg Gly Gly Ser Arg Leu Cys Ser Val Leu Phe Val
125 130 135
Cys Phe Glu Thr Gly Ser His Ser Ala Thr Asp Ala Gly Val Gln
140 145 150
Trp His Asn Arg His Ala Leu Lys Pro
155

<210> 362
<211> 422
<212> DNA
<213> Homo sapiens

<400> 362
aaggagaggc caccgggact tcagtgtctc ctccatccca ggagcgcagt 50
ggccactatg ggggtctgggc tgccccttgt cctcctcttg accctccttg 100
gcagctcaca tggaacaggc ccgggtatga ctttgcaact gaagctgaag 150
gagtcttttc tgacaaattc ctcctatgag tccagcttcc tggaattgct 200
tgaaaagctc tgcctcctcc tccatctccc ttcagggacc agcgtcaccc 250
tccaccatgc aagatctcaa caccatgttg tctgcaacac atgacagcca 300
ttgaagcctg tgtccttctt ggcccgggct tttgggccgg ggatgcagga 350
ggcaggcccc gaccctgtct ttcagcaggc cccaccctc ctgagtggca 400
ataaataaaa ttcggtatgc tg 422

<210> 363
<211> 78
<212> PRT
<213> Homo sapiens

<400> 363
Met Gly Ser Gly Leu Pro Leu Val Leu Leu Leu Thr Leu Leu Gly
1 5 10 15
Ser Ser His Gly Thr Gly Pro Gly Met Thr Leu Gln Leu Lys Leu
20 25 30
Lys Glu Ser Phe Leu Thr Asn Ser Ser Tyr Glu Ser Ser Phe Leu
35 40 45
Glu Leu Leu Glu Lys Leu Cys Leu Leu Leu His Leu Pro Ser Gly
50 55 60
Thr Ser Val Thr Leu His His Ala Arg Ser Gln His His Val Val
65 70 75
Cys Asn Thr

<210> 364
<211> 826

P2730P1sequencelisting.txt

<212> DNA
<213> Homo sapiens

<400> 364
aattgtatct gtgtaatggtt aaaacaaacg aaataaaata gaaggaaaaa 50
ctttctgagt ttcaaaaaca acagactagt actctaaaga actcttttaa 100
acaattaact gttaggattg cagttatgat tggatattat ttaattctgt 150
ttctgatgtg gggttcctcc actgtgttct gtgtgctatt aatatttacc 200
attgcagaag cttcattcag tgttgaaaat gaatgcttag tggatctgtg 250
cctcttacgc atatgttaca aattatctgg agttcctaata caatgcagag 300
ttccccctccc ctccgattgt tctaaataat tgaaagatgt ctgctgtgga 350
aaaaggcatg tatttaaatac tgtatgattc tcaaccatct ttagttggga 400
aaggtccttg aaagccaatg gaaatacttt ttttttttct tggcactaat 450
caagtgaagt ttaccttttc acttagtagg atgtgttggt acgctagtaa 500
aatagaaacc tgtgtttatt ctcagggtatt ttagaaacaa cagccatcat 550
tttattttat gtgtgtgttc ttggctgtat tcataaatta tatatttttg 600
gctatcaaata attacttcat tcaatataaa taacaatagt agaagttggt 650
tacttagata tgctttctag ttgcattttc tcagcctatg taagactact 700
ttgttgtaat agcctttgaa atttacagta ctgtctctct actatcttca 750
gattacttga ttcaaataaa ccaattatgt ttgtaattga tattaataaa 800
accagaataa aagttcatat ctaccc 826

<210> 365
<211> 67
<212> PRT
<213> Homo sapiens

<400> 365
Met Ile Gly Tyr Tyr Leu Ile Leu Phe Leu Met Trp Gly Ser Ser
1 5 10 15
Thr Val Phe Cys Val Leu Leu Ile Phe Thr Ile Ala Glu Ala Ser
20 25 30
Phe Ser Val Glu Asn Glu Cys Leu Val Asp Leu Cys Leu Leu Arg
35 40 45
Ile Cys Tyr Lys Leu Ser Gly Val Pro Asn Gln Cys Arg Val Pro
50 55 60
Leu Pro Ser Asp Cys Ser Lys
65

<210> 366
<211> 2475
<212> DNA
<213> Homo sapiens

<400> 366
gaggatttgc cacagcagcg gatagagcag gagagcacca ccggagccct 50
tgagacatcc ttgagaagag ccacagcata agagactgcc ctgcttggtg 100

P2730P1sequencelisting.txt

ttttgcagga tgatggtggc ctttcgagga gcttctgcat tgctggttct 150
 gttccttgca gcttttctgc ccccgccgca gtgtaccag gaccagcca 200
 tgggtgcatta catctaccag cgctttcgag tcttgagca agggctggaa 250
 aaatgtacc aagcaacgag ggcatacatt caagaattcc aagagttctc 300
 aaaaaatata tctgtcatgc tgggaagatg tcagacctac acaagtgagt 350
 acaagagtgc agtgggtaac ttggcactga gagttgaacg tgcccaacgg 400
 gagattgact acatacaata ctttcgagag gctgacgagt gcatcgtatc 450
 agaggacaag aactggcag aaatgttgct ccaagaagct gaagaagaga 500
 aaaagatccg gactctgctg aatgcaagct gtgacaacat gctgatgggc 550
 ataaagtctt tgaaaatagt gaagaagatg atggacacac atggctcttg 600
 gatgaaagat gctgtctata actctccaaa ggtgtactta ttaattggat 650
 ccagaaacaa cactgtttgg gaatttgcaa acatacgggc attcatggag 700
 gataacacca agccagctcc ccggaagcaa atcctaacac tttcctggca 750
 ggggaacaggc caagtgatct acaaagggtt tctatttttt cataaccaag 800
 caacttctaa tgagataatc aaatataacc tgcagaagag gactgtggaa 850
 gatcgaatgc tgctcccagg aggggtaggc cgagcattgg tttaccagca 900
 ctccccctca acttacattg acctggctgt ggatgagcat gggctctggg 950
 ccatccactc tgggccaggc acccatagcc atttggttct cacaaagatt 1000
 gagccgggca cactgggagt ggagcattca tgggataccc catgcagaag 1050
 ccaggatgct gaagcctcat tcctcttggtg tggggttctc tatgtggtct 1100
 acagtactgg gggccagggc cctcatcgca tcacctgcat ctatgatcca 1150
 ctgggcacta tcagtgagga ggacttgccc aacttgttct tccccaagag 1200
 accaagaagt cactccatga tccattacaa cccagagat aagcagctct 1250
 atgcctggaa tgaaggaaac cagatcattt acaaactcca gacaaagaga 1300
 aagctgcctc tgaagtaatg cattacagct gtgagaaaga gactgtggc 1350
 tttggcagct gttctacagg acagtgaggc tatagcccct tcacaatata 1400
 gtatccctct aatcacacac aggaagagtg tgtagaagtg gaaatacgta 1450
 tgccctcttt cccaaatgtc actgccttag gtatcttcca agagcttaga 1500
 tgagagcata tcatcaggaa agtttcaaca atgtccatta ctccccaaa 1550
 cctcctggct ctcaaggatg accacattct gatacagcct acttcaagcc 1600
 ttttgtttta ctgctcccca gcatttactg taactctgcc atcttccctc 1650
 ccacaattag agttgtatgc cagcccctaa tattcaccac tggcttttct 1700
 ctccccctggc ctttgctgaa gctcttccct ctttttcaaa tgtctattga 1750
 tattctccca ttttactgc ccaactaaaa tactattaat atttcttct 1800

P2730P1sequencelisting.txt

tttttttttct tttttttgag acaaggtctc actatgttgc ccaggctggt 1850
 ctcaaactcc agagctcaag agatcctcct gcctcagcct cctaagtacc 1900
 tgggattaca ggcattgtgcc accacacctg gcttaaaata ctattttctta 1950
 ttgaggttta acctctatatt cccctagccc tgcctttcca ctaagcttgg 2000
 tagatgtaat aataaagtga aaatattaac atttgaatat cgctttccag 2050
 gtgtggagtg tttgcacatc attgaattct cgtttcacct ttgtgaaaca 2100
 tgcacaagtc tttacagctg tcatttctaga gtttaggtga gtaacacaat 2150
 tacaaagtga aagatacagc tagaaaatac tacaaatccc atagtttttc 2200
 cattgcccaa ggaagcatca aatacgtatg tttgttcacc tactcttata 2250
 gtcaatgcgt tcatcgtttc agcctaaaaa taatagtctg tcccttttagc 2300
 cagttttcat gtctgcacaa gacctttcaa taggcctttc aaatgataat 2350
 tcctccagaa aaccagtcta agggtgagga cccaactct agcctcctct 2400
 tgtcttgctg tcctctgttt ctctctttct gctttaaatt caataaaagt 2450
 gacactgagc aaaaaaaaaa aaaaa 2475

<210> 367

<211> 402

<212> PRT

<213> Homo sapiens

<400> 367

Met	Met	Val	Ala	Leu	Arg	Gly	Ala	Ser	Ala	Leu	Leu	Val	Leu	Phe
1				5					10					15
Leu	Ala	Ala	Phe	Leu	Pro	Pro	Pro	Gln	Cys	Thr	Gln	Asp	Pro	Ala
				20					25					30
Met	Val	His	Tyr	Ile	Tyr	Gln	Arg	Phe	Arg	Val	Leu	Glu	Gln	Gly
				35					40					45
Leu	Glu	Lys	Cys	Thr	Gln	Ala	Thr	Arg	Ala	Tyr	Ile	Gln	Glu	Phe
				50					55					60
Gln	Glu	Phe	Ser	Lys	Asn	Ile	Ser	Val	Met	Leu	Gly	Arg	Cys	Gln
				65					70					75
Thr	Tyr	Thr	Ser	Glu	Tyr	Lys	Ser	Ala	Val	Gly	Asn	Leu	Ala	Leu
				80					85					90
Arg	Val	Glu	Arg	Ala	Gln	Arg	Glu	Ile	Asp	Tyr	Ile	Gln	Tyr	Leu
				95					100					105
Arg	Glu	Ala	Asp	Glu	Cys	Ile	Val	Ser	Glu	Asp	Lys	Thr	Leu	Ala
				110					115					120
Glu	Met	Leu	Leu	Gln	Glu	Ala	Glu	Glu	Glu	Lys	Lys	Ile	Arg	Thr
				125					130					135
Leu	Leu	Asn	Ala	Ser	Cys	Asp	Asn	Met	Leu	Met	Gly	Ile	Lys	Ser
				140					145					150
Leu	Lys	Ile	Val	Lys	Lys	Met	Met	Asp	Thr	His	Gly	Ser	Trp	Met
				155					160					165

P2730P1sequencelisting.txt

Lys Asp Ala Val	Tyr Asn Ser Pro Lys	Val Tyr Leu Leu Ile	Gly
	170	175	180
Ser Arg Asn Asn	Thr Val Trp Glu Phe	Ala Asn Ile Arg Ala	Phe
	185	190	195
Met Glu Asp Asn	Thr Lys Pro Ala Pro	Arg Lys Gln Ile Leu	Thr
	200	205	210
Leu Ser Trp Gln	Gly Thr Gly Gln Val	Ile Tyr Lys Gly Phe	Leu
	215	220	225
Phe Phe His Asn	Gln Ala Thr Ser Asn	Glu Ile Ile Lys Tyr	Asn
	230	235	240
Leu Gln Lys Arg	Thr Val Glu Asp Arg	Met Leu Leu Pro Gly	Gly
	245	250	255
Val Gly Arg Ala	Leu Val Tyr Gln His	Ser Pro Ser Thr Tyr	Ile
	260	265	270
Asp Leu Ala Val	Asp Glu His Gly Leu	Trp Ala Ile His Ser	Gly
	275	280	285
Pro Gly Thr His	Ser His Leu Val Leu	Thr Lys Ile Glu Pro	Gly
	290	295	300
Thr Leu Gly Val	Glu His Ser Trp Asp	Thr Pro Cys Arg Ser	Gln
	305	310	315
Asp Ala Glu Ala	Ser Phe Leu Leu Cys	Gly Val Leu Tyr Val	Val
	320	325	330
Tyr Ser Thr Gly	Gly Gln Gly Pro His	Arg Ile Thr Cys Ile	Tyr
	335	340	345
Asp Pro Leu Gly	Thr Ile Ser Glu Glu	Asp Leu Pro Asn Leu	Phe
	350	355	360
Phe Pro Lys Arg	Pro Arg Ser His Ser	Met Ile His Tyr Asn	Pro
	365	370	375
Arg Asp Lys Gln	Leu Tyr Ala Trp Asn	Glu Gly Asn Gln Ile	Ile
	380	385	390
Tyr Lys Leu Gln	Thr Lys Arg Lys Leu	Pro Leu Lys	
	395	400	

<210> 368

<211> 2281

<212> DNA

<213> Homo sapiens

<400> 368

```

gggcgccgc gtactcacta gctgaggtgg cagtggttcc accaacaatgg 50
agctctcgca gatgtcggag ctcatggggc tgtcgggtgtt gcttgggctg 100
ctggccctga tggcgacggc ggcggtagcg cgggggtggc tgcgcgcggg 150
ggaggagagg agcggccggc ccgcctgccaa aaaagcaaata ggatttccac 200
ctgacaaatc ttcgggatcc aagaagcaga aacaatatca gcggattcgg 250
aaggagaagc ctcaacaaca caacttcacc caccgcctcc tggctgcagc 300
tctgaagagc cacagcggga acatatcttg catggacttt agcagcaatg 350

```

P2730P1sequencelisting.txt

gcaaatacct ggctacctgt gcagatgatc gcaccatccg catctggagc 400
accaaggact tcctgcagcg agagcaccgc agcatgagag ccaacgtgga 450
gctggaccac gccaccctgg tgcgcttcag ccctgactgc agagccttca 500
tcgtctggct ggccaacggg gacaccctcc gtgtcttcaa gatgaccaag 550
cgggaggatg ggggctacac cttcacagcc accccagagg acttccttaa 600
aaagcacaag gcgcctgtca tcgacattgg cattgctaac acaggggaagt 650
ttatcatgac tgcctccagt gacaccactg tcctcatctg gagcctgaag 700
ggtcaagtgc tgtctaccat caacaccaac cagatgaaca acacacacgc 750
tgctgtatct ccctgtggca gattttagc ctcgtgtggc ttcacccag 800
atgtgaaggt ttgggaagtc tgctttggaa agaaggggga gttccaggag 850
gtggtgcgag ctttcgaact aaagggccac tccgcggctg tgcactcgtt 900
tgctttctcc aacgactcac ggaggatggc ttctgtctcc aaggatggta 950
catggaaact gtgggacaca gatgtggaat acaagaagaa gcaggacccc 1000
tacttgctga agacaggccg ctttgaagag gcggcggggtg ccgcgccgtg 1050
ccgcctggcc ctctcccccac acgcccaggt cttggccttg gccagtggca 1100
gtagtattca tctctacaat acccggcggg gcgagaagga ggagtgtttt 1150
gagcgggtcc atggcgagtg tatcgccaac ttgtcctttg acatcactgg 1200
ccgctttctg gcctcctgtg gggaccgggc ggtgcggctg tttcacaaca 1250
ctcctggcca ccgagccatg gtggaggaga tgcagggccca cctgaagcgg 1300
gcctccaacg agagcaccgc ccagaggctg cagcagcagc tgaccaggc 1350
ccaagagacc ctgaagagcc tgggtgccct gaagaagtga ctctgggagg 1400
gccccggcga gaggattgag gaggagggat ctggcctcct catggcactg 1450
ctgccatctt tcctcccagg tggaaacctt tcagaaggag tctcctgggt 1500
ttcttactgg tggccctgct tcttccatt gaaactactc ttgtctactt 1550
aggtctctct cttcttgctg gctgtgactc ctccctgact agtggccaag 1600
gtgcttttct tcctcccagg ccagtggggt ggaatctgtc cccacctggc 1650
actgaggaga atggtagaga ggagaggaga gagagagaga atgtgatttt 1700
tggccttggt gcagcacatc ctcacacca aagaagtttg taaatgttcc 1750
agaacaacct agagaacacc tgagtactaa gcagcagttt tgcaaggatg 1800
ggagactggg atagcttccc atcacagaac tgtgttccat caaaaagaca 1850
ctaagggatt tccttctggg cctcagttct atttgtaaga tggagaataa 1900
tcctctctgt gaactccttg caaagatgat atgaggctaa gagaatatca 1950
agtccccagg tctggaagaa aagtagaaaa gagtagtact attgtccaat 2000
gtcatgaaag tggtaaaagt gggaaccagt gtgctttgaa accaaattag 2050

P2730P1sequencelisting.txt

aaacacattc cttggaagg caaagttttc tgggacttga tcatacattt 2100
 tatatggttg ggactttctt cttcgggaga tgatatcttg tttaaggaga 2150
 cctcttttca gttcatcaag ttcacagat atttgagtgc ccactctgtg 2200
 cccaaataaa tatgagctgg ggattaaaaa aaaaaaaaaa aaaaaaaaaa 2250
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 2281

<210> 369
 <211> 447
 <212> PRT
 <213> Homo sapiens

<400> 369
 Met Glu Leu Ser Gln Met Ser Glu Leu Met Gly Leu Ser Val Leu
 1 5 10 15
 Leu Gly Leu Leu Ala Leu Met Ala Thr Ala Ala Val Ala Arg Gly
 20 25 30
 Trp Leu Arg Ala Gly Glu Glu Arg Ser Gly Arg Pro Ala Cys Gln
 35 40 45
 Lys Ala Asn Gly Phe Pro Pro Asp Lys Ser Ser Gly Ser Lys Lys
 50 55 60
 Gln Lys Gln Tyr Gln Arg Ile Arg Lys Glu Lys Pro Gln Gln His
 65 70 75
 Asn Phe Thr His Arg Leu Leu Ala Ala Ala Leu Lys Ser His Ser
 80 85 90
 Gly Asn Ile Ser Cys Met Asp Phe Ser Ser Asn Gly Lys Tyr Leu
 95 100 105
 Ala Thr Cys Ala Asp Asp Arg Thr Ile Arg Ile Trp Ser Thr Lys
 110 115 120
 Asp Phe Leu Gln Arg Glu His Arg Ser Met Arg Ala Asn Val Glu
 125 130 135
 Leu Asp His Ala Thr Leu Val Arg Phe Ser Pro Asp Cys Arg Ala
 140 145 150
 Phe Ile Val Trp Leu Ala Asn Gly Asp Thr Leu Arg Val Phe Lys
 155 160 165
 Met Thr Lys Arg Glu Asp Gly Gly Tyr Thr Phe Thr Ala Thr Pro
 170 175 180
 Glu Asp Phe Pro Lys Lys His Lys Ala Pro Val Ile Asp Ile Gly
 185 190 195
 Ile Ala Asn Thr Gly Lys Phe Ile Met Thr Ala Ser Ser Asp Thr
 200 205 210
 Thr Val Leu Ile Trp Ser Leu Lys Gly Gln Val Leu Ser Thr Ile
 215 220 225
 Asn Thr Asn Gln Met Asn Asn Thr His Ala Ala Val Ser Pro Cys
 230 235 240
 Gly Arg Phe Val Ala Ser Cys Gly Phe Thr Pro Asp Val Lys Val
 245 250 255
 Trp Glu Val Cys Phe Gly Lys Lys Gly Glu Phe Gln Glu Val Val

P2730P1sequencelisting.txt

260	265	270
Arg Ala Phe Glu Leu Lys Gly His Ser	Ala Ala Val His Ser Phe	
275	280	285
Ala Phe Ser Asn Asp Ser Arg Arg Met	Ala Ser Val Ser Lys Asp	
290	295	300
Gly Thr Trp Lys Leu Trp Asp Thr Asp	Val Glu Tyr Lys Lys Lys	
305	310	315
Gln Asp Pro Tyr Leu Leu Lys Thr Gly	Arg Phe Glu Glu Ala Ala	
320	325	330
Gly Ala Ala Pro Cys Arg Leu Ala Leu	Ser Pro Asn Ala Gln Val	
335	340	345
Leu Ala Leu Ala Ser Gly Ser Ser Ile	His Leu Tyr Asn Thr Arg	
350	355	360
Arg Gly Glu Lys Glu Glu Cys Phe Glu	Arg Val His Gly Glu Cys	
365	370	375
Ile Ala Asn Leu Ser Phe Asp Ile Thr	Gly Arg Phe Leu Ala Ser	
380	385	390
Cys Gly Asp Arg Ala Val Arg Leu Phe	His Asn Thr Pro Gly His	
395	400	405
Arg Ala Met Val Glu Glu Met Gln Gly	His Leu Lys Arg Ala Ser	
410	415	420
Asn Glu Ser Thr Arg Gln Arg Leu Gln	Gln Gln Leu Thr Gln Ala	
425	430	435
Gln Glu Thr Leu Lys Ser Leu Gly Ala	Leu Lys Lys	
440	445	

<210> 370

<211> 1415

<212> DNA

<213> Homo sapiens

<400> 370

```

tggcctcccc agcttgccag gcacaaggct gagcgggagg aagcgagagg 50
catctaagca ggcagtgttt tgccttcacc ccaagtgacc atgagaggtg 100
ccacgcgagt ctcaatcatg ctcctcctag taactgtgtc tgactgtgct 150
gtgatcacag gggcctgtga gcgggatgtc cagtgtgggg caggcacctg 200
ctgtgccatc agcctgtggc ttcgagggct gcggatgtgc accccgctgg 250
ggcgggaagg cgaggagtgc caccgccgca gccacaaggc ccccttcttc 300
aggaaacgca agcaccacac ctgtccttgc ttgccaacc tgctgtgctc 350
caggttcccg gacggcaggc accgctgctc catggacttg aagaacatca 400
atttttaggc gcttgccctg tctcaggata cccaccatcc ttttcctgag 450
cacagcctgg atttttattt ctgccatgaa acccagctcc catgactctc 500
ccagtccta cactgactac cctgatctct cttgtctagt acgcacatat 550
gcacacaggc agacatacct cccatcatga catggtcccc aggctggcct 600

```

P2730P1sequencelisting.txt

gaggatgtca cagcttgagg ctgtggtgtg aaaggtggcc agcctggttc 650
tcttcctgc tcaggctgcc agagaggtgg taaatggcag aaaggacatt 700
ccccctcccc tccccagggtg acctgctctc tttcctgggc cctgccccctc 750
tccccacatg tatccctcgg tctgaattag acattcctgg gcacaggctc 800
ttgggtgcat tgctcagagt cccaggctct ggcctgaccc tcaggccctt 850
cacgtgaggt ctgtgaggac caatttgtgg gtagttcatc ttccctcgat 900
tggttaactc cttagtttca gaccacagac tcaagattgg ctcttcccag 950
agggcagcag acagtcaccc caaggcaggt gtagggagcc cagggaggcc 1000
aatcagcccc ctgaagactc tgggtcccagt cagcctgtgg cttgtggcct 1050
gtgacctgtg accttctgcc agaattgtca tgcctctgag gccccctctt 1100
accacacttt accagttaac cactgaagcc cccaattccc acagcttttc 1150
cattaaaatg caaatggtgg tggttcaatc taatctgata ttgacatatt 1200
agaaggcaat taggggtgttt ccttaaacia ctcctttcca aggatcagcc 1250
ctgagagcag gttggtgact ttgaggaggg cagtcctctg tccagattgg 1300
ggtgggagca agggacaggg agcagggcag gggctgaaag gggcactgat 1350
tcagaccagg gaggcaacta cacaccaaca tgctggcttt agaataaaag 1400
caccaactga aaaaa 1415

<210> 371
<211> 105
<212> PRT
<213> Homo sapiens

<400> 371
Met Arg Gly Ala Thr Arg Val Ser Ile Met Leu Leu Leu Val Thr
1 5 10 15
Val Ser Asp Cys Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Val
20 25 30
Gln Cys Gly Ala Gly Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg
35 40 45
Gly Leu Arg Met Cys Thr Pro Leu Gly Arg Glu Gly Glu Glu Cys
50 55 60
His Pro Gly Ser His Lys Val Pro Phe Phe Arg Lys Arg Lys His
65 70 75
His Thr Cys Pro Cys Leu Pro Asn Leu Leu Cys Ser Arg Phe Pro
80 85 90
Asp Gly Arg Tyr Arg Cys Ser Met Asp Leu Lys Asn Ile Asn Phe
95 100 105

<210> 372
<211> 1281
<212> DNA
<213> Homo sapiens

<400> 372
agcgcgccgg cgctcggggcg gtaaaaggcc ggcagaaggg aggcacttga 50

P2730P1sequencelisting.txt

gaaatgtctt tcctccagga cccaagtttc ttcaccatgg ggatgtgggc 100
 cattggtgca ggagccctgg gggctgctgc cttggcattg ctgcttgcca 150
 acacagacgt gtttctgtcc aagccccaga aagcggccct ggagtacctg 200
 gaggatatag acctgaaaac actggagaag gaaccaagga ctttcaaagc 250
 aaaggagcta tgggaaaaaa atggagctgt gattatggcc gtgcggaggc 300
 caggctgttt cctctgtcga gaggaagctg cggatctgtc ctccctgaaa 350
 agcatgttgg accagctggg cgtccccctc tatgcagtgg taaaggagca 400
 catcaggact gaagtgaagg atttccagcc ttatttcaaa ggagaaatct 450
 tcctggatga aaagaaaaaag ttctatggtc cacaaaggcg gaagatgatg 500
 tttatgggat ttatccgtct gggagtgtgg tacaacttct tccgagcctg 550
 gaacggaggc ttctctggaa acctggaagg agaaggcttc atccttgggg 600
 gagttttcgt ggtgggatca ggaaagcagg gcattcttct tgagcaccga 650
 gaaaaagaat ttggagacaa agtaaaccta ctttctgttc tggaagctgc 700
 taagatgata aaaccacaga ctttggcctc agagaaaaaa tgattgtgtg 750
 aaactgcca gctcagggat aaccaggac attcacctgt gttcatggga 800
 tgtattgttt ccaactgtgt ccctaaggag tgagaaacc atttatactc 850
 tactctcagt atggattatt aatgtatttt aatattctgt ttaggcccac 900
 taaggcaaaa tagcccaaaa acaagactga caaaaatctg aaaaactaat 950
 gaggattatt aagctaaaac ctgggaaata ggaggcttaa aattgactgc 1000
 caggctgggt gcagtggctc acacctgtaa tcccagcact ttgggaggcc 1050
 aaggtgagca agtcacttga ggtcgggagt tcgagaccag cctgagcaac 1100
 atggcgaaac cccgtctcta ctaaaaatac aaaaatcacc cgggtgtggt 1150
 ggcaggcacc tgtagtccca gctaccggg aggctgaggc aggagaatca 1200
 cttgaacctg ggaggtggag gttgcggtga gctgagatca caccactgta 1250
 ttccagcctg ggtgactgag actctaacta a 1281

<210> 373

<211> 229

<212> PRT

<213> Homo sapiens

<400> 373

Met	Ser	Phe	Leu	Gln	Asp	Pro	Ser	Phe	Phe	Thr	Met	Gly	Met	Trp
1				5					10					15
Ser	Ile	Gly	Ala	Gly	Ala	Leu	Gly	Ala	Ala	Ala	Leu	Ala	Leu	Leu
				20					25					30
Leu	Ala	Asn	Thr	Asp	Val	Phe	Leu	Ser	Lys	Pro	Gln	Lys	Ala	Ala
				35					40					45
Leu	Glu	Tyr	Leu	Glu	Asp	Ile	Asp	Leu	Lys	Thr	Leu	Glu	Lys	Glu
				50					55					60

P2730P1sequencelisting.txt

Pro Arg Thr Phe Lys Ala Lys Glu Leu Trp Glu Lys Asn Gly Ala
65 70 75
Val Ile Met Ala Val Arg Arg Pro Gly Cys Phe Leu Cys Arg Glu
80 85 90
Glu Ala Ala Asp Leu Ser Ser Leu Lys Ser Met Leu Asp Gln Leu
95 100 105
Gly Val Pro Leu Tyr Ala Val Val Lys Glu His Ile Arg Thr Glu
110 115 120
Val Lys Asp Phe Gln Pro Tyr Phe Lys Gly Glu Ile Phe Leu Asp
125 130 135
Glu Lys Lys Lys Phe Tyr Gly Pro Gln Arg Arg Lys Met Met Phe
140 145 150
Met Gly Phe Ile Arg Leu Gly Val Trp Tyr Asn Phe Phe Arg Ala
155 160 165
Trp Asn Gly Gly Phe Ser Gly Asn Leu Glu Gly Glu Gly Phe Ile
170 175 180
Leu Gly Gly Val Phe Val Val Gly Ser Gly Lys Gln Gly Ile Leu
185 190 195
Leu Glu His Arg Glu Lys Glu Phe Gly Asp Lys Val Asn Leu Leu
200 205 210
Ser Val Leu Glu Ala Ala Lys Met Ile Lys Pro Gln Thr Leu Ala
215 220 225
Ser Glu Lys Lys

<210> 374
<211> 744
<212> DNA
<213> Homo sapiens

<400> 374
acggaccgag gggttcgaggg agggacacgg accaggaacc tgagctaggt 50
caaagacgcc cgggccaggt gccccgtcgc aggtgcccct ggccggagat 100
gcggtaggag gggcgagcgc gagaagcccc ttcctcggcg ctgccaaccc 150
gccaccagc ccatggcgaa ccccgggctg gggctgcttc tggcgctggg 200
cctgccgttc ctgctggccc gctggggccg agcctggggg caaatacaga 250
ccacttctgc aaatgagaat agcactgttt tgccttcac caccagctcc 300
agctccgatg gcaacctgcg tccggaagcc atcactgcta tcatcgtggt 350
cttctccctc ttggctgcct tgctcctggc tgtggggctg gactgttg 400
tgcggaagct tcgggagaag cggcagacgg agggcaccta ccggcccagt 450
agcgaggagc agttctccca tgcagccgag gcccgggccc ctcaggactc 500
caaggagacg gtgcagggct gcctgcccac ctagggtccc tctcctgcat 550
ctgtctccct tcattgctgt gtgaccttgg ggaaaggcag tgccctctct 600
gggcagtcag atccaccag tgcttaatag cagggaagaa ggtacttcaa 650

P2730P1sequencelisting.txt

agactctgcc cctgaggtca agagaggatg gggctattca cttttatata 700
tttatataaa attagtagtg agatgtaaaa aaaaaaaaaa aaaa 744

<210> 375
<211> 123
<212> PRT
<213> Homo sapiens

<400> 375
Met Ala Asn Pro Gly Leu Gly Leu Leu Leu Ala Leu Gly Leu Pro
1 5 10 15
Phe Leu Leu Ala Arg Trp Gly Arg Ala Trp Gly Gln Ile Gln Thr
20 25 30
Thr Ser Ala Asn Glu Asn Ser Thr Val Leu Pro Ser Ser Thr Ser
35 40 45
Ser Ser Ser Asp Gly Asn Leu Arg Pro Glu Ala Ile Thr Ala Ile
50 55 60
Ile Val Val Phe Ser Leu Leu Ala Ala Leu Leu Leu Ala Val Gly
65 70 75
Leu Ala Leu Leu Val Arg Lys Leu Arg Glu Lys Arg Gln Thr Glu
80 85 90
Gly Thr Tyr Arg Pro Ser Ser Glu Glu Gln Phe Ser His Ala Ala
95 100 105
Glu Ala Arg Ala Pro Gln Asp Ser Lys Glu Thr Val Gln Gly Cys
110 115 120
Leu Pro Ile

<210> 376
<211> 713
<212> DNA
<213> Homo sapiens

<400> 376
aatatatcat ctatttatca ttaatcaata atgtattctt ttattccaat 50
aacatttggg ttttgggatt ttaattttca aacacagcag aatgacattt 100
tttctgtcac tattattatt gttggtatgt gaagctattt ggagatccaa 150
ttcaggaagc aacacattgg agaatggcta ctttctatca agaaataaag 200
agaaccacag tcaaccacac caatcatctt tagaagacag tgtgactcct 250
accaaagctg tcaaaaccac aggcaagggc atagttaaag gacggaatct 300
tgactcaaga ggggttaattc ttggtgctga agcctggggc aggggtgtaa 350
agaaaaacac ttagattcaa tgattgtaaa ttaaggcaa atacacatat 400
tagtattacc ttagtgtaat gtatccctgt catatataca ataaggtgaa 450
attataagta ccctatgcag ttggctggac agttctaaat tggactttat 500
taatttttaa aatcagtaac tgatttatca ctggctatgt gcttagatct 550
acaggagatc atataatttg atacaaataa aagaaaagtg ttctctcccc 600

P2730P1sequencelisting.txt

ttacagaatt gacatttttaa atgcgataca gttagaatag gaaatatgac 650
 attagaaagg aagaatgaca gggagaaagg aaagaaggga aaatgttgcc 700
 aaggaaaaaa aaa 713

<210> 377
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 377.
 Met Thr Phe Phe Leu Ser Leu Leu Leu Leu Val Cys Glu Ala
 1 5 10 15
 Ile Trp Arg Ser Asn Ser Gly Ser Asn Thr Leu Glu Asn Gly Tyr
 20 25 30
 Phe Leu Ser Arg Asn Lys Glu Asn His Ser Gln Pro Thr Gln Ser
 35 40 45
 Ser Leu Glu Asp Ser Val Thr Pro Thr Lys Ala Val Lys Thr Thr
 50 55 60
 Gly Lys Gly Ile Val Lys Gly Arg Asn Leu Asp Ser Arg Gly Leu
 65 70 75
 Ile Leu Gly Ala Glu Ala Trp Gly Arg Gly Val Lys Lys Asn Thr
 80 85 90

<210> 378
 <211> 3265
 <212> DNA
 <213> Homo sapiens

<400> 378
 gccaggaata actagagagg aacaatgggg ttattcagag gttttgtttt 50
 cctcttagtt ctgtgcctgc tgcaccagtc aaatacttcc ttcattaagc 100
 tgaataataa tggctttgaa gatattgtca ttgttataga tcctagtgtg 150
 ccagaagatg aaaaaataat tgaacaaata gaggatatgg tgactacagc 200
 ttctacgtac ctgtttgaag ccacagaaaa aagatttttt ttcaaaaatg 250
 tatctatatt aattcctgag aattggaagg aaaatcctca gtacaaaagg 300
 ccaaaacatg aaaaccataa acatgctgat gttatagttg caccacctac 350
 actcccaggt agagatgaac catacaccaa gcagttcaca gaatgtggag 400
 agaaaggcga atacattcac ttcacccctg accttctact tggaaaaaaa 450
 caaatgaat atggaccacc aggcaactg tttgtccatg agtgggctca 500
 cctccggtgg ggagtgtttg atgagtacaa tgaagatcag cttttctacc 550
 gtgctaagtc aaaaaaaatc gaagcaacaa ggtgttccgc aggtatctct 600
 ggtagaaata gagtttataa gtgtcaagga ggcagctgtc ttagtagagc 650
 atgcagaatt gattctacaa caaaactgta tggaaaagat tgtcaattct 700
 ttcttgataa agtacaaaca gaaaaagcat ccataatgtt tatgcaaagt 750
 attgattctg ttgttgaatt ttgtaacgaa aaaaccata atcaagaagc 800

P2730P1sequencelisting.txt

tccaagccta caaaacataa agtgcaatth tagaagtaca tgggaggtga 850
ttagcaattc tgaggattth aaaaacacca taccatggt gacaccacct 900
cctccacctg tcttctcatt gctgaagatc agtcaaagaa ttgtgtgctt 950
agttcttgat aagtctggaa gcatgggggg taaggaccgc ctaaatacgaa 1000
tgaatcaagc agcaaaacat ttcctgctgc agactgttga aaatggatcc 1050
tgggtgggga tggttcactt tgatagtact gccactattg taaataagct 1100
aatccaaata aaaagcagtg atgaaagaaa cacactcatg gcaggattac 1150
ctacatatcc tctgggagga acttccatct gctctggaat taaatatgca 1200
tttcaggtga ttggagagct acattcccaa ctcgatggat ccgaagtact 1250
gctgctgact gatggggagg ataacactgc aagttcttgt attgatgaag 1300
tgaaacaaag tggggccatt gttcatttta ttgctttggg aagagctgct 1350
gatgaagcag taatagagat gagcaagata acaggaggaa gtcattttta 1400
tgtttcagat gaagctcaga acaatggcct cattgatgct tttggggctc 1450
ttacatcagg aaatactgat ctctcccaga agtcccttca gctcgaaagt 1500
aagggattaa cactgaatag taatgcctgg atgaacgaca ctgtcataat 1550
tgatagtaca gtgggaaagg acacgttctt tctcatcaca tggaacagtc 1600
tgcctcccag tatttctctc tgggatccca gtggaacaat aatggaaaat 1650
ttcacagtgg atgcaacttc caaaatggcc tatctcagta ttccaggaaac 1700
tgcaaaggty ggcacttggg catacaatct tcaagccaaa gcgaaccag 1750
aaacattaac tattacagta acttctcgag cagcaaattc ttctgtgcct 1800
ccaatcacag tgaatgctaa aatgaataag gacgtaaaca gtttccccag 1850
cccaatgatt gtttacgcag aaattctaca aggatatgta cctgttcttg 1900
gagccaatgt gactgctttc attgaatcac agaatggaca tacagaagtt 1950
ttggaacttt tggataatgg tgcaggcgt gattctttca agaatgatgg 2000
agtctactcc aggtatttta cagcatatac agaaaatggc agatatagct 2050
taaaagttcg ggctcatgga ggagcaaaca ctgccaggct aaaattacgg 2100
cctccactga atagagccgc gtacatacca ggctgggtag tgaacgggga 2150
aattgaagca aacccgcaa gacctgaaat tgatgaggat actcagacca 2200
ccttgaggga ttccagccga acagcatccg gaggtgcatt tgtggtatca 2250
caagtcccaa gccttccctt gcctgaccaa taccaccaa gtcaaatac 2300
agaccttgat gccacagttc atgaggataa gattattctt acatggacag 2350
caccaggaga taattttgat gttggaaaag ttcaacgtta tatcataaga 2400
ataagtcaa gtattcttga tctaagagac agttttgatg atgctcttca 2450
agtaaatact actgatctgt caccaaagga ggccaactcc aaggaaagct 2500

P2730P1sequencelisting.txt

ttgcatttaa accagaaaat atctcagaag aaaatgcaac ccacatatatt 2550
attgccatta aaagtataga taaaagcaat ttgacatcaa aagtatccaa 2600
cattgcacaa gtaactttgt ttatccctca agcaaatacct gatgacattg 2650
atcctacacc tactcctact cctactccta ctcttgataa aagtcataat 2700
tctggagtta atattttctac gctgggtattg tctgtgattg ggtctgttgt 2750
aattgttaac tttatttttaa gtaccacat ttgaacctta acgaagaaaa 2800
aaatcttcaa gtagacctag aagagagttt taaaaaaca aacaatgtaa 2850
gtaaaggata tttctgaatc ttaaaattca tcccatgtgt gatcataaac 2900
tcataaaaaat aattttaaga tgtcggaaaa ggatactttg attaaataaa 2950
aacactcatg gatatgtaaa aactgtcaag attaaaattt aatagtttca 3000
tttattttgtt attttatttg taagaaatag tgatgaacaa agatcctttt 3050
tcatactgat acctgggtgt atattatttg atgcaacagt tttctgaaat 3100
gatattttcaa attgcatcaa gaaattaaaa tcattctatct gagtagtcaa 3150
aatacaagta aaggagagca aataaacaac atttggaataa aaaaaaaaaa 3200
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3250
aaaaaaaaaa aaaaa 3265

<210> 379

<211> 919

<212> PRT

<213> Homo sapiens

<400> 379

Met	Gly	Leu	Phe	Arg	Gly	Phe	Val	Phe	Leu	Leu	Val	Leu	Cys	Leu
1				5					10					15
Leu	His	Gln	Ser	Asn	Thr	Ser	Phe	Ile	Lys	Leu	Asn	Asn	Asn	Gly
				20					25					30
Phe	Glu	Asp	Ile	Val	Ile	Val	Ile	Asp	Pro	Ser	Val	Pro	Glu	Asp
				35					40					45
Glu	Lys	Ile	Ile	Glu	Gln	Ile	Glu	Asp	Met	Val	Thr	Thr	Ala	Ser
				50					55					60
Thr	Tyr	Leu	Phe	Glu	Ala	Thr	Glu	Lys	Arg	Phe	Phe	Phe	Lys	Asn
				65					70					75
Val	Ser	Ile	Leu	Ile	Pro	Glu	Asn	Trp	Lys	Glu	Asn	Pro	Gln	Tyr
				80					85					90
Lys	Arg	Pro	Lys	His	Glu	Asn	His	Lys	His	Ala	Asp	Val	Ile	Val
				95					100					105
Ala	Pro	Pro	Thr	Leu	Pro	Gly	Arg	Asp	Glu	Pro	Tyr	Thr	Lys	Gln
				110					115					120
Phe	Thr	Glu	Cys	Gly	Glu	Lys	Gly	Glu	Tyr	Ile	His	Phe	Thr	Pro
				125					130					135
Asp	Leu	Leu	Leu	Gly	Lys	Lys	Gln	Asn	Glu	Tyr	Gly	Pro	Pro	Gly
				140					145					150

P2730P1sequencelisting.txt

Lys	Leu	Phe	Val	His	Glu	Trp	Ala	His	Leu	Arg	Trp	Gly	Val	Phe	155	160	165
Asp	Glu	Tyr	Asn	Glu	Asp	Gln	Pro	Phe	Tyr	Arg	Ala	Lys	Ser	Lys	170	175	180
Lys	Ile	Glu	Ala	Thr	Arg	Cys	Ser	Ala	Gly	Ile	Ser	Gly	Arg	Asn	185	190	195
Arg	Val	Tyr	Lys	Cys	Gln	Gly	Gly	Ser	Cys	Leu	Ser	Arg	Ala	Cys	200	205	210
Arg	Ile	Asp	Ser	Thr	Thr	Lys	Leu	Tyr	Gly	Lys	Asp	Cys	Gln	Phe	215	220	225
Phe	Pro	Asp	Lys	Val	Gln	Thr	Glu	Lys	Ala	Ser	Ile	Met	Phe	Met	230	235	240
Gln	Ser	Ile	Asp	Ser	Val	Val	Glu	Phe	Cys	Asn	Glu	Lys	Thr	His	245	250	255
Asn	Gln	Glu	Ala	Pro	Ser	Leu	Gln	Asn	Ile	Lys	Cys	Asn	Phe	Arg	260	265	270
Ser	Thr	Trp	Glu	Val	Ile	Ser	Asn	Ser	Glu	Asp	Phe	Lys	Asn	Thr	275	280	285
Ile	Pro	Met	Val	Thr	Pro	Pro	Pro	Pro	Pro	Val	Phe	Ser	Leu	Leu	290	295	300
Lys	Ile	Ser	Gln	Arg	Ile	Val	Cys	Leu	Val	Leu	Asp	Lys	Ser	Gly	305	310	315
Ser	Met	Gly	Gly	Lys	Asp	Arg	Leu	Asn	Arg	Met	Asn	Gln	Ala	Ala	320	325	330
Lys	His	Phe	Leu	Leu	Gln	Thr	Val	Glu	Asn	Gly	Ser	Trp	Val	Gly	335	340	345
Met	Val	His	Phe	Asp	Ser	Thr	Ala	Thr	Ile	Val	Asn	Lys	Leu	Ile	350	355	360
Gln	Ile	Lys	Ser	Ser	Asp	Glu	Arg	Asn	Thr	Leu	Met	Ala	Gly	Leu	365	370	375
Pro	Thr	Tyr	Pro	Leu	Gly	Gly	Thr	Ser	Ile	Cys	Ser	Gly	Ile	Lys	380	385	390
Tyr	Ala	Phe	Gln	Val	Ile	Gly	Glu	Leu	His	Ser	Gln	Leu	Asp	Gly	395	400	405
Ser	Glu	Val	Leu	Leu	Leu	Thr	Asp	Gly	Glu	Asp	Asn	Thr	Ala	Ser	410	415	420
Ser	Cys	Ile	Asp	Glu	Val	Lys	Gln	Ser	Gly	Ala	Ile	Val	His	Phe	425	430	435
Ile	Ala	Leu	Gly	Arg	Ala	Ala	Asp	Glu	Ala	Val	Ile	Glu	Met	Ser	440	445	450
Lys	Ile	Thr	Gly	Gly	Ser	His	Phe	Tyr	Val	Ser	Asp	Glu	Ala	Gln	455	460	465
Asn	Asn	Gly	Leu	Ile	Asp	Ala	Phe	Gly	Ala	Leu	Thr	Ser	Gly	Asn	470	475	480
Thr	Asp	Leu	Ser	Gln	Lys	Ser	Leu	Gln	Leu	Glu	Ser	Lys	Gly	Leu	485	490	495

P2730P1sequencelisting.txt

Thr	Leu	Asn	Ser	Asn	Ala	Trp	Met	Asn	Asp	Thr	Val	Ile	Ile	Asp
				500					505					510
Ser	Thr	Val	Gly	Lys	Asp	Thr	Phe	Phe	Leu	Ile	Thr	Trp	Asn	Ser
				515					520					525
Leu	Pro	Pro	Ser	Ile	Ser	Leu	Trp	Asp	Pro	Ser	Gly	Thr	Ile	Met
				530					535					540
Glu	Asn	Phe	Thr	Val	Asp	Ala	Thr	Ser	Lys	Met	Ala	Tyr	Leu	Ser
				545					550					555
Ile	Pro	Gly	Thr	Ala	Lys	Val	Gly	Thr	Trp	Ala	Tyr	Asn	Leu	Gln
				560					565					570
Ala	Lys	Ala	Asn	Pro	Glu	Thr	Leu	Thr	Ile	Thr	Val	Thr	Ser	Arg
				575					580					585
Ala	Ala	Asn	Ser	Ser	Val	Pro	Pro	Ile	Thr	Val	Asn	Ala	Lys	Met
				590					595					600
Asn	Lys	Asp	Val	Asn	Ser	Phe	Pro	Ser	Pro	Met	Ile	Val	Tyr	Ala
				605					610					615
Glu	Ile	Leu	Gln	Gly	Tyr	Val	Pro	Val	Leu	Gly	Ala	Asn	Val	Thr
				620					625					630
Ala	Phe	Ile	Glu	Ser	Gln	Asn	Gly	His	Thr	Glu	Val	Leu	Glu	Leu
				635					640					645
Leu	Asp	Asn	Gly	Ala	Gly	Ala	Asp	Ser	Phe	Lys	Asn	Asp	Gly	Val
				650					655					660
Tyr	Ser	Arg	Tyr	Phe	Thr	Ala	Tyr	Thr	Glu	Asn	Gly	Arg	Tyr	Ser
				665					670					675
Leu	Lys	Val	Arg	Ala	His	Gly	Gly	Ala	Asn	Thr	Ala	Arg	Leu	Lys
				680					685					690
Leu	Arg	Pro	Pro	Leu	Asn	Arg	Ala	Ala	Tyr	Ile	Pro	Gly	Trp	Val
				695					700					705
Val	Asn	Gly	Glu	Ile	Glu	Ala	Asn	Pro	Pro	Arg	Pro	Glu	Ile	Asp
				710					715					720
Glu	Asp	Thr	Gln	Thr	Thr	Leu	Glu	Asp	Phe	Ser	Arg	Thr	Ala	Ser
				725					730					735
Gly	Gly	Ala	Phe	Val	Val	Ser	Gln	Val	Pro	Ser	Leu	Pro	Leu	Pro
				740					745					750
Asp	Gln	Tyr	Pro	Pro	Ser	Gln	Ile	Thr	Asp	Leu	Asp	Ala	Thr	Val
				755					760					765
His	Glu	Asp	Lys	Ile	Ile	Leu	Thr	Trp	Thr	Ala	Pro	Gly	Asp	Asn
				770					775					780
Phe	Asp	Val	Gly	Lys	Val	Gln	Arg	Tyr	Ile	Ile	Arg	Ile	Ser	Ala
				785					790					795
Ser	Ile	Leu	Asp	Leu	Arg	Asp	Ser	Phe	Asp	Asp	Ala	Leu	Gln	Val
				800					805					810
Asn	Thr	Thr	Asp	Leu	Ser	Pro	Lys	Glu	Ala	Asn	Ser	Lys	Glu	Ser
				815					820					825
Phe	Ala	Phe	Lys	Pro	Glu	Asn	Ile	Ser	Glu	Glu	Asn	Ala	Thr	His

P2730P1sequencelisting.txt

830		835		840
Ile Phe Ile Ala	Ile Lys Ser Ile Asp	Lys Ser Asn Leu Thr	Ser	
845		850		855
Lys Val Ser Asn	Ile Ala Gln Val Thr	Leu Phe Ile Pro Gln	Ala	
860		865		870
Asn Pro Asp Asp	Ile Asp Pro Thr Pro	Thr Pro Thr Pro Thr	Pro	
875		880		885
Thr Pro Asp Lys	Ser His Asn Ser Gly	Val Asn Ile Ser Thr	Leu	
890		895		900
Val Leu Ser Val	Ile Gly Ser Val Val	Ile Val Asn Phe Ile	Leu	
905		910		915
Ser Thr Thr Ile				

<210> 380
 <211> 3877
 <212> DNA
 <213> Homo sapiens

<400> 380
 ctcccttaggt ggaaaccctg ggagtagagt actgacagca aagaccggga 50
 aagaccatac gtccccgggc aggggtgaca acaggtgtca tctttttgat 100
 ctctgtgtgtg gctgccttcc tatttcaagg aaagacgcca aggtaatttt 150
 gaccagagg agcaatgatg tagccacctc ctaaccttcc cttcttgaac 200
 cccagttat gccaggattt actagagagt gtcaactcaa ccagcaagcg 250
 gctccttcgg cttaacttgt ggttggagga gagaaccttt gtggggctgc 300
 gttctcttag cagtgtctag aagtgacttg cctgaggggtg gaccagaaga 350
 aaggaaaggt cccctcttgc tgttggctgc acatcaggaa ggctgtgatg 400
 ggaatgaagg tgaaaacttg gagatttcac ttcagtcatt gcttctgcct 450
 gcaagatcat cctttaaaag tagagaagct gctctgtgtg gtggttaact 500
 ccaagaggca gaactcgttc tagaaggaaa tggatgcaag cagctccggg 550
 ggccccaaac gcatgcttcc tgtggtctag cccagggaag cccttccgtg 600
 ggggccccgg ctttgaggga tgccaccggt tctggacgca tggctgattc 650
 ctgaatgatg atggttcgcc gggggctgct tgcgtggatt tcccgggtgg 700
 tggttttgct ggtgtcctc tgctgtgcta tctctgtcct gtacatgttg 750
 gcctgcaccc caaaaggtag cgaggagcag ctggcactgc ccagggccaa 800
 cagccccacg ggggaaggagg ggtaccaggc cgtccttcag gagtgggagg 850
 agcagcaccg caactacgtg agcagcctga agcggcagat cgcacagctc 900
 aaggaggagc tgcaggagag gagtgagcag ctcaggaatg ggcagtacca 950
 agccagcgat gctgtggcc tgggtctgga caggagcccc ccagagaaaa 1000
 cccaggccga cctcctggcc ttcctgcact cgcaggtgga caaggcagag 1050

P2730P1sequencelisting.txt

gtgaatgctg gcgtcaagct ggccacagag tatgcagcag tgcctttcga 1100
tagcttttact ctacagaagg tgtaccagct ggagactggc cttacccgcc 1150
accccgagga gaagcctgtg aggaaggaca agcgggatga gttggtggaa 1200
gccattgaat cagccttgga gaccctgaac aatcctgcag agaacagccc 1250
caatcaccgt ccttacacgg cctctgattt catagaaggg atctaccgaa 1300
cagaaaggga caaagggaca ttgtatgagc tcaccttcaa aggggaccac 1350
aaacacgaat tcaaacggct catcttattt cgaccattca gccccatcat 1400
gaaagtgaaa aatgaaaagc tcaacatggc caacacgctt atcaatgtta 1450
tcgtgcctct agcaaaaagg gtggacaagt tccggcagtt catgcagaat 1500
ttcagggaga tgtgcattga gcaggatggg agagtccatc tcaactgttg 1550
ttacttttggg aaagaagaaa taaatgaagt caaaggaata cttgaaaaca 1600
cttccaaagc tgccaacttc aggaacttta cttcatcca gctgaatgga 1650
gaattttctc ggggaaaggg acttgatggt ggagcccgt tctggaaggg 1700
aagcaacgtc cttctctttt tctgtgatgt ggacatctac ttcacatctg 1750
aattcctcaa tacgtgtagg ctgaatacac agccaggga gaaggtattt 1800
tatccagttc ttttcagtca gtacaatcct ggcataatat acggccacca 1850
tgatgcagtc cctcccttgg aacagcagct ggtcataaag aaggaaactg 1900
gatttttgag agactttgga tttgggatga cgtgtcagta tcggtcagac 1950
ttcatcaata taggtgggtt tgatctggac atcaaaggct ggggcggaga 2000
ggatgtgcac ctttatcgca agtatctcca cagcaacctc atagtgttac 2050
ggacgcctgt gcgaggactc ttccacctt ggcatgagaa gcgctgcatg 2100
gacgagctga ccccgagca gtacaagatg tgcatgcagt ccaaggccat 2150
gaacgaggca tcccacggcc agctgggcat gctggtgttc aggcacgaga 2200
tagaggctca ctttcgaaa cagaaacaga agacaagtag caaaaaaaca 2250
tgaactcca gagaaggatt gtgggagaca ctttttctt ctttttgcaa 2300
ttactgaaag tggctgcaac agagaaaaga cttcataaa ggacgacaaa 2350
agaattggac tgatgggtca gagatgagaa agcctccgat ttctctctgt 2400
tgggcttttt acaacagaaa tcaaatctc cgctttgcct gcaaaagtaa 2450
cccagttgca ccctgtgaag tgtctgacaa aggcagaatg cttgtgagat 2500
tataagccta atggtgtgga ggttttgatg gtgtttacaa tacactgaga 2550
cctgttgttt tgtgtgctca ttgaaatatt catgatttaa gagcagtttt 2600
gtaaaaaatt cattagcatg aaaggcaagc atatttctcc tcatatgaat 2650
gagcctatca gcagggtctt agtttctagg aatgctaaaa tatcagaagg 2700
caggagagga gataggctta ttatgatact agtgagtaca ttaagtaaaa 2750

P2730P1sequencelisting.txt

taaaatggac cagaaaagaa aagaaacat aaatatcgtg tcatattttc 2800
 cccaagatta accaaaaata atctgcttat ctttttggtt gtccttttaa 2850
 ctgtctccgt ttttttcttt tatttaaaaa tgcacttttt ttcccttggtg 2900
 agttatagtc tgcttattta attaccactt tgcaagcctt acaagagagc 2950
 acaagttggc ctacattttt atatttttta agaagatact ttgagatgca 3000
 ttatgagaac tttcagttca aagcatcaaa ttgatgccat atccaaggac 3050
 atgccaaatg ctgattctgt caggcactga atgtcaggca ttgagacata 3100
 ggggaaggaat ggtttggtact aatacagacg tacagatact ttctctgaag 3150
 agtattttcg aagaggagca actgaacact ggaggaaaag aaaatgacac 3200
 ttcttgcttt acagaaaagg aaactcattc agactggtga tatcgtgatg 3250
 tacctaaaag tcagaaacca cattttctcc tcagaagtag ggaccgcttt 3300
 cttacctgtt taaataaacc aaagtatacc gtgtgaacca aacaatctct 3350
 tttcaaaaca ggggtgctcct cctggcttct ggcttcata agaagaaatg 3400
 gagaaaaata tatatatata tatatatatt gtgaaagatc aatccatctg 3450
 ccagaatcta gtgggatgga agtttttgct acatgttatc caccacaggc 3500
 caggtggaag taactgaatt attttttaaa ttaagcagtt ctactcaatc 3550
 accaagatgc ttctgaaaat tgcattttat taccatttca aactattttt 3600
 taaaaataaa tacagttaac atagagtggg ttcttcattc atgtgaaaat 3650
 tattagccag caccagatgc atgagctaata tatctctttg agtccttgct 3700
 tctgtttgct cacagtaaac tcattgttta aaagcttcaa gaacattcaa 3750
 gctgttggtg tgttaaaaaa tgcattgtat tgatttgtag tggtagtta 3800
 tgaaatttaa ttaaaacaca ggccatgaat ggaaggtggt attgcacagc 3850
 taataaaata tgatttggtg atatgaa 3877

<210> 381
 <211> 532
 <212> PRT
 <213> Homo sapiens

<400> 381
 Met Met Met Val Arg Arg Gly Leu Leu Ala Trp Ile Ser Arg Val
 1 5 10 15
 Val Val Leu Leu Val Leu Leu Cys Cys Ala Ile Ser Val Leu Tyr
 20 25 30
 Met Leu Ala Cys Thr Pro Lys Gly Asp Glu Glu Gln Leu Ala Leu
 35 40 45
 Pro Arg Ala Asn Ser Pro Thr Gly Lys Glu Gly Tyr Gln Ala Val
 50 55 60
 Leu Gln Glu Trp Glu Glu Gln His Arg Asn Tyr Val Ser Ser Leu
 65 70 75
 Lys Arg Gln Ile Ala Gln Leu Lys Glu Glu Leu Gln Glu Arg Ser

P2730P1sequencelisting.txt

80										85										90									
Glu	Gln	Leu	Arg	Asn	Gly	Gln	Tyr	Gln	Ala	Ser	Asp	Ala	Ala	Gly															
				95					100					105															
Leu	Gly	Leu	Asp	Arg	Ser	Pro	Pro	Glu	Lys	Thr	Gln	Ala	Asp	Leu															
				110					115					120															
Leu	Ala	Phe	Leu	His	Ser	Gln	Val	Asp	Lys	Ala	Glu	Val	Asn	Ala															
				125					130					135															
Gly	Val	Lys	Leu	Ala	Thr	Glu	Tyr	Ala	Ala	Val	Pro	Phe	Asp	Ser															
				140					145					150															
Phe	Thr	Leu	Gln	Lys	Val	Tyr	Gln	Leu	Glu	Thr	Gly	Leu	Thr	Arg															
				155					160					165															
His	Pro	Glu	Glu	Lys	Pro	Val	Arg	Lys	Asp	Lys	Arg	Asp	Glu	Leu															
				170					175					180															
Val	Glu	Ala	Ile	Glu	Ser	Ala	Leu	Glu	Thr	Leu	Asn	Asn	Pro	Ala															
				185					190					195															
Glu	Asn	Ser	Pro	Asn	His	Arg	Pro	Tyr	Thr	Ala	Ser	Asp	Phe	Ile															
				200					205					210															
Glu	Gly	Ile	Tyr	Arg	Thr	Glu	Arg	Asp	Lys	Gly	Thr	Leu	Tyr	Glu															
				215					220					225															
Leu	Thr	Phe	Lys	Gly	Asp	His	Lys	His	Glu	Phe	Lys	Arg	Leu	Ile															
				230					235					240															
Leu	Phe	Arg	Pro	Phe	Ser	Pro	Ile	Met	Lys	Val	Lys	Asn	Glu	Lys															
				245					250					255															
Leu	Asn	Met	Ala	Asn	Thr	Leu	Ile	Asn	Val	Ile	Val	Pro	Leu	Ala															
				260					265					270															
Lys	Arg	Val	Asp	Lys	Phe	Arg	Gln	Phe	Met	Gln	Asn	Phe	Arg	Glu															
				275					280					285															
Met	Cys	Ile	Glu	Gln	Asp	Gly	Arg	Val	His	Leu	Thr	Val	Val	Tyr															
				290					295					300															
Phe	Gly	Lys	Glu	Glu	Ile	Asn	Glu	Val	Lys	Gly	Ile	Leu	Glu	Asn															
				305					310					315															
Thr	Ser	Lys	Ala	Ala	Asn	Phe	Arg	Asn	Phe	Thr	Phe	Ile	Gln	Leu															
				320					325					330															
Asn	Gly	Glu	Phe	Ser	Arg	Gly	Lys	Gly	Leu	Asp	Val	Gly	Ala	Arg															
				335					340					345															
Phe	Trp	Lys	Gly	Ser	Asn	Val	Leu	Leu	Phe	Phe	Cys	Asp	Val	Asp															
				350					355					360															
Ile	Tyr	Phe	Thr	Ser	Glu	Phe	Leu	Asn	Thr	Cys	Arg	Leu	Asn	Thr															
				365					370					375															
Gln	Pro	Gly	Lys	Lys	Val	Phe	Tyr	Pro	Val	Leu	Phe	Ser	Gln	Tyr															
				380					385					390															
Asn	Pro	Gly	Ile	Ile	Tyr	Gly	His	His	Asp	Ala	Val	Pro	Pro	Leu															
				395					400					405															
Glu	Gln	Gln	Leu	Val	Ile	Lys	Lys	Glu	Thr	Gly	Phe	Trp	Arg	Asp															
				410					415					420															

P2730P1sequencelisting.txt

Phe Gly Phe Gly Met Thr Cys Gln Tyr Arg Ser Asp Phe Ile Asn
425 430 435
Ile Gly Gly Phe Asp Leu Asp Ile Lys Gly Trp Gly Gly Glu Asp
440 445 450
Val His Leu Tyr Arg Lys Tyr Leu His Ser Asn Leu Ile Val Val
455 460 465
Arg Thr Pro Val Arg Gly Leu Phe His Leu Trp His Glu Lys Arg
470 475 480
Cys Met Asp Glu Leu Thr Pro Glu Gln Tyr Lys Met Cys Met Gln
485 490 495
Ser Lys Ala Met Asn Glu Ala Ser His Gly Gln Leu Gly Met Leu
500 505 510
Val Phe Arg His Glu Ile Glu Ala His Leu Arg Lys Gln Lys Gln
515 520 525
Lys Thr Ser Ser Lys Lys Thr
530

<210> 382

<211> 25

<212> DNA

<213> Artificial sequence

<220>

<223> synthetic oligonucleotide probe

<400> 382

ctcggggaaa gggacttgat gttgg 25

<210> 383

<211> 26

<212> DNA

<213> Artificial sequence

<220>

<223> synthetic oligonucleotide probe

<400> 383

gcgaaggatga gcctctatct cgtgcc 26

<210> 384

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> synthetic oligonucleotide probe

<400> 384

cagcctacac gtattgagg 19

<210> 385

<211> 48

<212> DNA

<213> Artificial sequence

<220>

<223> synthetic oligonucleotide probe

<400> 385

cagtcagtac aatcctggca taatatacgg ccaccatgat gcagtgccc 48

P2730P1sequencelisting.txt

<210> 386
 <211> 1346
 <212> DNA
 <213> Homo sapiens

<400> 386
 gaaagaatgt tgtggctgct cttttttctg gtgactgcca ttcattgctga 50
 actctgtcaa ccagggtgcag aaaatgcttt taaagtgaga cttagtatca 100
 gaacagctct gggagataaa gcatatgcct gggataccaa tgaagaatac 150
 ctcttcaaag cgatggtagc tttctccatg agaaaagttc ccaacagaga 200
 agcaacagaa atttcccatg tcctactttg caatgtaacc cagagggtat 250
 cattctggtt tgtggttaca gacccttcaa aaaatcacac ctttctgct 300
 gttgaggtgc aatcagccat aagaatgaac aagaaccgga tcaacaatgc 350
 cttctttcta aatgacacaa ctctggaatt tttaaaaatc ctttccacac 400
 ttgcaccacc catggaccca tctgtgcccc tctggattat tatatttggt 450
 gtgatatttt gcatcatcat agttgcaatt gcactactga ttttatcagg 500
 gatctggcaa cgtagaagaa agaacaaaga accatctgaa gtggatgacg 550
 ctgaagataa gtgtgaaaac atgatcacia ttgaaaatgg catcccctct 600
 gatcccctgg acatgaaggg gggcatatta atgatgcctt catgacagag 650
 gatgagaggc tcacccctct ctgaagggtt gttgttctgc ttcctcaaga 700
 aattaaacat ttgtttctgt gtgactgctg agcatcctga aataccaaga 750
 gcagatcata tattttgttt caccattctt cttttgtaat aaattttgaa 800
 tgtgcttgaa agtgaaaagc aatcaattat acccaccaac accactgaaa 850
 tcataagcta ttcacgactc aaaatattct aaaatatttt tctgacagta 900
 tagtgtataa atgtgggtcat gtggtatttg tagttattga ttttaagcatt 950
 tttagaaata agatcaggca tatgtatata ttttcacact tcaaagacct 1000
 aaggaaaaat aaattttcca gtggagaata catataatat ggtgtagaaa 1050
 tcattgaaaa tggatccttt ttgacgatca cttatatcac tctgtatatg 1100
 actaagtaaa caaagtgtg aagtaattat tgtaaattgga tggataaaaa 1150
 tgggaattact catatacagg gtggaatttt atcctgttat cacaccaaca 1200
 gttgattata tattttctga atatcagccc ctaataggac aattctattt 1250
 gttgaccatt tctacaattt gtaaaagtcc aatctgtgct aacttaataa 1300
 agtaataatc atctcttttt aaaaaaaaaa aaaaaaaaaa aaaaaa 1346

<210> 387
 <211> 212
 <212> PRT
 <213> Homo sapiens

<400> 387
 Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu
 1 5 10 15

P2730P1sequencelisting.txt

Leu	Cys	Gln	Pro	Gly	Ala	Glu	Asn	Ala	Phe	Lys	Val	Arg	Leu	Ser
				20					25					30
Ile	Arg	Thr	Ala	Leu	Gly	Asp	Lys	Ala	Tyr	Ala	Trp	Asp	Thr	Asn
				35					40					45
Glu	Glu	Tyr	Leu	Phe	Lys	Ala	Met	Val	Ala	Phe	Ser	Met	Arg	Lys
				50					55					60
Val	Pro	Asn	Arg	Glu	Ala	Thr	Glu	Ile	Ser	His	Val	Leu	Leu	Cys
				65					70					75
Asn	Val	Thr	Gln	Arg	Val	Ser	Phe	Trp	Phe	Val	Val	Thr	Asp	Pro
				80					85					90
Ser	Lys	Asn	His	Thr	Leu	Pro	Ala	Val	Glu	Val	Gln	Ser	Ala	Ile
				95					100					105
Arg	Met	Asn	Lys	Asn	Arg	Ile	Asn	Asn	Ala	Phe	Phe	Leu	Asn	Asp
				110					115					120
Gln	Thr	Leu	Glu	Phe	Leu	Lys	Ile	Pro	Ser	Thr	Leu	Ala	Pro	Pro
				125					130					135
Met	Asp	Pro	Ser	Val	Pro	Ile	Trp	Ile	Ile	Ile	Phe	Gly	Val	Ile
				140					145					150
Phe	Cys	Ile	Ile	Ile	Val	Ala	Ile	Ala	Leu	Leu	Ile	Leu	Ser	Gly
				155					160					165
Ile	Trp	Gln	Arg	Arg	Arg	Lys	Asn	Lys	Glu	Pro	Ser	Glu	Val	Asp
				170					175					180
Asp	Ala	Glu	Asp	Lys	Cys	Glu	Asn	Met	Ile	Thr	Ile	Glu	Asn	Gly
				185					190					195
Ile	Pro	Ser	Asp	Pro	Leu	Asp	Met	Lys	Gly	Gly	Ile	Leu	Met	Met
				200					205					210

Pro Ser

<210> 388
 <211> 1371
 <212> DNA
 <213> Homo sapiens

<400> 388
 aactcaaact cctctctctg ggaaaacgcg gtgcttgctc ctcccggagt 50
 ggccttgcca ggggtgttga gccctcggtc tgccccgtcc ggtctctggg 100
 gccaaaggctg ggtttccctc atgtatggca agagctctac tcgtgcggtg 150
 cttcttctcc ttggcataca gctcacagct ctttggccta tagcagctgt 200
 ggaaatttat acctcccggg tgctggaggc tgtaaatggg acagatgctc 250
 ggttaaaatg cactttctcc agctttgcc ctgtgggtga tgctctaaca 300
 gtgacctgga attttcgctc tctagacggg ggacctgagc agtttgtatt 350
 ctactaccac atagatccct tccaacccat gagtgggcgg tttaaggacc 400
 ggggtgtcttg ggatgggaat cctgagcgg acgatgcctc catccttctc 450
 tggaaactgc agttcgacga caatgggaca tacacctgcc aggtgaagaa 500

P2730P1sequencelisting.txt

```

cccacctgat gttgatgggg tgatagggga gatccggctc agcgtcgtgc 550
acactgtacg cttctctgag atccacttcc tggctctggc cattggctct 600
gcctgtgcac tgatgatcat aatagtaatt gtagtggtcc tcttcagca 650
ttaccggaaa aagcgatggg ccgaaagagc tcataaagtg gtggagataa 700
aatcaaaaga agaggaaagg ctcaaccaag agaaaaaggt ctctgtttat 750
ttagaagaca cagactaaca attttagatg gaagctgaga tgatttccaa 800
gaacaagaac cctagtatctt ctgaagtta atggaaactt ttctttggct 850
tttcagttg tgacccgttt tccaaccagt tctgcagcat attagattct 900
agacaagcaa caccctctg gagccagcac agtgctcctc catatcacca 950
gtcatacaca gcctcattat taaggcttta ttaatttca gagtgtaaat 1000
tttttcaagt gctcattagg tttataaac aagaagctac atttttgccc 1050
ttaagacact acttacagtg ttatgacttg tatacacata tattggtatc 1100
aaaggggata aaagccaatt tgtctgttac atttcctttc acgtatttct 1150
tttagcagca cttctgtac taaagttaat gtgtttactc tctttccttc 1200
ccacattctc aattaaaggg tgagctaagc ctctcggtg tttctgatta 1250
acagtaaata ctaaattcaa actgttaaata gacattttta ttttatgtc 1300
tctccttaac tatgagacac atcttgtttt actgaatttc tttcaatatt 1350
ccaggtgata gatttttgtc g 1371

```

<210> 389
 <211> 215
 <212> PRT
 <213> Homo sapiens

<400> 389
 Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu Leu Gly
 1 5 10 15
 Ile Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile Tyr
 20 25 30
 Thr Ser Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu
 35 40 45
 Lys Cys Thr Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr
 50 55 60
 Val Thr Trp Asn Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe
 65 70 75
 Val Phe Tyr Tyr His Ile Asp Pro Phe Gln Pro Met Ser Gly Arg
 80 85 90
 Phe Lys Asp Arg Val Ser Trp Asp Gly Asn Pro Glu Arg Tyr Asp
 95 100 105
 Ala Ser Ile Leu Leu Trp Lys Leu Gln Phe Asp Asp Asn Gly Thr
 110 115 120
 Tyr Thr Cys Gln Val Lys Asn Pro Pro Asp Val Asp Gly Val Ile
 Page 321

P2730P1sequencelisting.txt

125	130	135
Gly Glu Ile Arg	Leu Ser Val Val His Thr Val Arg Phe Ser	Glu
	140 145	150
Ile His Phe Leu	Ala Leu Ala Ile Gly Ser Ala Cys Ala Leu	Met
	155 160	165
Ile Ile Ile Val	Ile Val Val Val Leu Phe Gln His Tyr Arg	Lys
	170 175	180
Lys Arg Trp Ala	Glu Arg Ala His Lys Val Val Glu Ile Lys	Ser
	185 190	195
Lys Glu Glu Glu	Arg Leu Asn Gln Glu Lys Lys Val Ser Val	Tyr
	200 205	210
Leu Glu Asp Thr	Asp	
	215	

<210> 390
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 390
 ccgaggccat ctagaggcca gagc 24

<210> 391
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 391
 acaggcagag ccaatggcca gagc 24

<210> 392
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide probe

<400> 392
 gagaggactg cgggagtttg ggacctttgt gcagacgtgc tcatg 45

<210> 393
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 393
 gcatttttgt ctgtgctccc tgatcttcag gtcaccacca tgaagttctt 50
 agcagtcctg gtactcttgg gagtttccat ctttctggtc tctgcccaga 100
 atccgacaac agctgctcca gctgacacgt atccagctac tggctcctgct 150
 gatgatgaag cccctgatgc tgaaccact gctgctgcaa ccaactgcgac 200
 cactgctgct cctaccactg caaccaccgc tgcttctacc actgctcgta 250

P2730P1sequencelisting.txt

aagacattcc agttttaccc aaatggggtg gggatctccc gaatggtaga 300
 gtgtgtccct gagatggaat cagcttgagt cttctgcaat tggtcacaac 350
 tattcatgct tcctgtgatt tcatccaact acttaccttg cctacgatat 400
 cccctttatc tctaatacgt ttattttctt tcaaataaaa aataactatg 450
 agcaacataa aaaaaaaaaa a 471

<210> 394

<211> 90

<212> PRT

<213> Homo sapiens

<400> 394

Met	Lys	Phe	Leu	Ala	Val	Leu	Val	Leu	Leu	Gly	Val	Ser	Ile	Phe
1				5					10					15
Leu	Val	Ser	Ala	Gln	Asn	Pro	Thr	Thr	Ala	Ala	Pro	Ala	Asp	Thr
				20					25					30
Tyr	Pro	Ala	Thr	Gly	Pro	Ala	Asp	Asp	Glu	Ala	Pro	Asp	Ala	Glu
				35					40					45
Thr	Thr	Ala	Ala	Ala	Thr	Thr	Ala	Thr	Thr	Ala	Ala	Pro	Thr	Thr
				50					55					60
Ala	Thr	Thr	Ala	Ala	Ser	Thr	Thr	Ala	Arg	Lys	Asp	Ile	Pro	Val
				65					70					75
Leu	Pro	Lys	Trp	Val	Gly	Asp	Leu	Pro	Asn	Gly	Arg	Val	Cys	Pro
				80					85					90

<210> 395

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 395

gctccctgat cttcatgtca ccacc 25

<210> 396

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 396

cagggacaca ctctaccatt cgaggag 26

<210> 397

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 397

ccatcttttct ggtctctgcc cagaatccga caacagctgc tc 42

P2730P1sequencelisting.txt

<210> 398
 <211> 907
 <212> DNA
 <213> Homo sapiens

<400> 398
 ggactctgaa ggtcccaagc agctgctgag gcccccaagg aagtgggtcc 50
 aaccttggaac ccctaggggt ctggatttgc tgggtaacaa gataacctga 100
 gggcaggacc ccatagggga atgtacacac ctgcccttcc acctgccctg 150
 gtgttcacgg tggcctgggt cctccttgcc gagagagtgt cctgggtcag 200
 ggacgcagag gacgctcaca gactccagcc ctttggttacc gagaggacac 250
 ttggcaaggt ccagcgatgg tccggagtcc acacacagac tggcggcagg 300
 gcaggagggg gacagttctg ttgtgcttgg ttggacagta agaggggtctt 350
 ggccagtgca ggggtggggg cggaactc cataaagaac cagaggggtct 400
 gggccccggc cacagagtca tctgcccagc tcctctgctg ctggccagtg 450
 ggagtggcac gaggtggggc tttgtgcccag taaaaccaca ggctggattt 500
 gcctgcgggc catggtccct gtctagggca gcaattctca accttcttgc 550
 tctcaggacc ccaaagagct ttcattgtat ctattgattt ttaccacatt 600
 agcaattaaa actgagaaat gggccgggca cgggtggctca cgctgtaat 650
 cccagcactt tgggaggccg aggcgggtgg atcacctgag atcaggagtt 700
 caagaccagc ctggccaaca tggtgaaacc ttgtctacta aaaatacaaa 750
 aaattagcca ggcacagtgg tgtgactggt tagtcccagt tactcgggag 800
 gctgaggcag gaaaatcgct tgaaccagg aggcggacgt tgcggtgagc 850
 cgagatcgcg ccgctgattc cagcctgggc gacaagagtg agactccatc 900
 tcacaca 907

<210> 399
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 399
 Met Leu Pro Pro Ala Leu Pro Pro Ala Leu Val Phe Thr Val Ala
 1 5 10 15
 Trp Ser Leu Leu Ala Glu Arg Val Ser Trp Val Arg Asp Ala Glu
 20 25 30
 Asp Ala His Arg Leu Gln Pro Phe Val Thr Glu Arg Thr Leu Gly
 35 40 45
 Lys Val Gln Arg Trp Ser Gly Val His Thr Gln Thr Gly Gly Arg
 50 55 60
 Ala Gly Gly Gly Gln Phe Cys Cys Ala Trp Leu Asp Ser Lys Arg
 65 70 75
 Val Leu Ala Ser Pro Gly Trp Gly Ala Ala Asn Ser Ile Lys Asn
 80 85 90

P2730P1sequencelisting.txt

Gln Arg Val Trp Ala Pro Ala Thr Glu Ser Ser Ala Gln Leu Leu
95 100 105

Cys Cys Trp Pro Val Gly Val Ala Arg Gly Gly Ala Leu Cys Gln
110 115 120

<210> 400

<211> 893

<212> DNA

<213> Homo sapiens

<400> 400

gtcatgccag tgccctgctct gtgcctgctc tgggccctgg caatggtgac 50
ccggcctgcc tcagcggccc ccatgggcgg cccagaactg gcacagcatg 100
aggagctgac cctgctcttc catgggaccc tgcagctggg ccaggccctc 150
aacggtgtgt acaggaccac ggagggacgg ctgacaaagg ccaggaacag 200
cctgggtctc tatggccgca caatagaact cctggggcag gaggtcagcc 250
ggggccggga tgcagcccag gaacttcggg caagcctgtt ggagactcag 300
atggaggagg atattctgca gctgcaggca gaggccacag ctgaggtgct 350
gggggaggtg gcccaggcac agaaggtgct acgggacagc gtgcagcggc 400
tagaagtcca gctgaggagc gcctggctgg gccctgccta ccgagaattt 450
gaggtcttaa aggctcacgc tgacaagcag agccacatcc tatgggccct 500
cacaggccac gtgcagcggc agaggcggga gatggtggca cagcagcatc 550
ggctgcgaca gatccaggag agactccaca cagcggcgct cccagcctga 600
atctgcctgg atggaactga ggaccaatca tgctgcaagg aacacttcca 650
cgccccgtga ggccccctgtg cagggaggag ctgcctgttc actgggatca 700
gccagggcgc cgggccccac ttctgagcac agagcagaga cagacgcagg 750
cggggacaaa ggcagaggat gtagcccat tggggagggg tggaggaagg 800
acatgtaccc tttcatgcct acacaccctt cattaaagca gagtcgtggc 850
atttcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 893

<210> 401

<211> 198

<212> PRT

<213> Homo sapiens

<400> 401

Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met Val
1 5 10 15
Thr Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala
20 25 30
Gln His Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu
35 40 45
Gly Gln Ala Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu
50 55 60
Thr Lys Ala Arg Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu
65 70 75

P2730P1sequencelisting.txt

Leu	Leu	Gly	Gln	Glu	Val	Ser	Arg	Gly	Arg	Asp	Ala	Ala	Gln	Glu
				80					85					90
Leu	Arg	Ala	Ser	Leu	Leu	Glu	Thr	Gln	Met	Glu	Glu	Asp	Ile	Leu
				95					100					105
Gln	Leu	Gln	Ala	Glu	Ala	Thr	Ala	Glu	Val	Leu	Gly	Glu	Val	Ala
				110					115					120
Gln	Ala	Gln	Lys	Val	Leu	Arg	Asp	Ser	Val	Gln	Arg	Leu	Glu	Val
				125					130					135
Gln	Leu	Arg	Ser	Ala	Trp	Leu	Gly	Pro	Ala	Tyr	Arg	Glu	Phe	Glu
				140					145					150
Val	Leu	Lys	Ala	His	Ala	Asp	Lys	Gln	Ser	His	Ile	Leu	Trp	Ala
				155					160					165
Leu	Thr	Gly	His	Val	Gln	Arg	Gln	Arg	Arg	Glu	Met	Val	Ala	Gln
				170					175					180
Gln	His	Arg	Leu	Arg	Gln	Ile	Gln	Glu	Arg	Leu	His	Thr	Ala	Ala
				185					190					195

Leu Pro Ala

<210> 402
 <211> 1915
 <212> DNA
 <213> Homo sapiens

<400> 402
 ggcaacatgg ctcagcaggc ttgccccaga gccatggcaa agaatggact 50
 tgtaatttgc atcctggtga tcaccttact cctggaccag accaccagcc 100
 acacatccag attaaaagcc aggaagcaca gcaaacgtcg agtgagagac 150
 aaggatggag atctgaagac tcaaattgaa aagctctgga cagaagtcaa 200
 tgccttgaag gaaattcaag ccctgcagac agtctgtctc cgaggcacta 250
 aagttcacia gaaatgctac cttgcttcag aaggtttgaa gcatttccat 300
 gagggcaatg aagactgcat ttccaaagga ggaatcctgg ttatccccag 350
 gaactccgac gaaatcaacg ccctccaaga ctatggtaaa aggagcctgc 400
 caggtgtcaa tgacttttgg ctgggcatca atgacatggt cacggaaggc 450
 aagtttggtg acgtcaacgg aatcgctatc tccttctca actgggaccg 500
 tgcacagcct aacggtggca agcgagaaaa ctgtgtcctg ttctcccaat 550
 cagctcaggg caagtggagt gatgaggcct gtcgcagcag caagagatac 600
 atatgcgagt tcaccatccc taaataggtc tttctccaat gtgtcctcca 650
 agcaagattc atcataactt ataggttcat gatctctaag atcaagtaaa 700
 aatcataatt tttacttatt aaaaaattgc aacacaagat caatgtccat 750
 agcaatatga tagcatcagc caattttgct aacacatttc tttgggattt 800
 tgcccttcct ggggtatagg ggatcagaaa tattgatcca tgtgcacgca 850

P2730P1sequencelisting.txt

gataaaatgg cttctgctaa acagactaaa atctttctct ctagtctttc 900
 tcacttgtagc aaaccaggtt tgttttcaaa aaatcacagt agcaatgcaa 950
 ctcatcactc tagaaaagca agcttaggct acctgaaaga ttttcccttg 1000
 gaagtttagc gtatgtttga ctaacaaaaa ttccctacat cagagactct 1050
 aggtgctata taatccaaaa acttttcagc ctggtgctca ttctgtccca 1100
 tgctggcaat aataccttgt cagcccatta cccttatttt gaattgctcc 1150
 atctcctggt gggacttgta tcttgtctgc catatcagaa cacaaacccc 1200
 tgaagagggt ctgatttgat tttttttttt tcttcatgcc tacccttttt 1250
 ttggaagttt ccagccgcaa tttgaaatga aatgacaagg tgtatatttg 1300
 atcaattttc attccacca ttgcattaca acctctaact taaatgggta 1350
 accctaaggc atatcaaaga agcagattgc atgataaacg gaaatagaaa 1400
 aaaagaacct acattttatt tgcttttagca tccttactct caccttttat 1450
 gagattgaga gtggacttac atttcctttt ttacattttc gtatatttat 1500
 ttttttttagc catcattata tgtttaagtc tattatgggc aaccaatctt 1550
 tggaagctga aaactgaatt taaagaatgc tatcttgga aattgcatac 1600
 gtctgtgcaa ttttttattc tgcctagtgc tattctgctt gtttaactag 1650
 attgtacaaa ataacttcat tgcttaatat caaattacaa agtttagact 1700
 tggagggaaa tgggcttttt agaagcaaac aattttaaat atattttggt 1750
 cttcaaataa atagtgttta aacattgaat gtgttttggt aacaatatcc 1800
 cactttgcaa actttaacta cacatgcttg gaattaagtt ttagctgttt 1850
 tcattgctca ataataaagc ctgaattctg atcaataaaa aaaaaaaaaa 1900
 aaaaaaaaaa aaaaa 1915

<210> 403
 <211> 206
 <212> PRT
 <213> Homo sapiens

<400> 403
 Met Ala Gln Gln Ala Cys Pro Arg Ala Met Ala Lys Asn Gly Leu
 1 5 10 15
 Val Ile Cys Ile Leu Val Ile Thr Leu Leu Leu Asp Gln Thr Thr
 20 25 30
 Ser His Thr Ser Arg Leu Lys Ala Arg Lys His Ser Lys Arg Arg
 35 40 45
 Val Arg Asp Lys Asp Gly Asp Leu Lys Thr Gln Ile Glu Lys Leu
 50 55 60
 Trp Thr Glu Val Asn Ala Leu Lys Glu Ile Gln Ala Leu Gln Thr
 65 70 75
 Val Cys Leu Arg Gly Thr Lys Val His Lys Lys Cys Tyr Leu Ala
 80 85 90

P2730P1sequencelisting.txt

Ser Glu Gly Leu Lys His Phe His Glu Ala Asn Glu Asp Cys Ile
95 100 105
Ser Lys Gly Gly Ile Leu Val Ile Pro Arg Asn Ser Asp Glu Ile
110 115 120
Asn Ala Leu Gln Asp Tyr Gly Lys Arg Ser Leu Pro Gly Val Asn
125 130 135
Asp Phe Trp Leu Gly Ile Asn Asp Met Val Thr Glu Gly Lys Phe
140 145 150
Val Asp Val Asn Gly Ile Ala Ile Ser Phe Leu Asn Trp Asp Arg
155 160 165
Ala Gln Pro Asn Gly Gly Lys Arg Glu Asn Cys Val Leu Phe Ser
170 175 180
Gln Ser Ala Gln Gly Lys Trp Ser Asp Glu Ala Cys Arg Ser Ser
185 190 195
Lys Arg Tyr Ile Cys Glu Phe Thr Ile Pro Lys
200 205

<210> 404

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 404

cctggttatc cccaggaact ccgac 25

<210> 405

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 405

ctcttgctgc tgcgacaggc ctc 23

<210> 406

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 406

cgccctccaa gactatggta aaaggagcct gccaggtgtc aatgac 46

<210> 407

<211> 570

<212> DNA

<213> Homo sapiens

<400> 407

gcgaggaccg ggtataagaa gcctcgtggc cttgcccggg cagccgcagg 50

ttccccgcgc gccccgagcc cccgcgccat gaagctcgcc gccctcctgg 100

ggctctgcgt ggccctgtcc tgcagctccg ctgctgcttt cttagtgggc 150

P2730P1sequencelisting.txt

tcggccaagc ctgtggccca gcctgtcgct gcgctggagt cggcggcgga 200
 ggccggggcc gggaccctgg ccaacccctt cggcaccctc aaccgctga 250
 agctcctgct gagcagcctg ggcattccccg tgaaccacct catagagggc 300
 tcccagaagt gtgtggctga gctgggtccc caggccgtgg gggccgtgaa 350
 ggccctgaag gccctgtctg gggccctgac agtgtttggc tgagccgaga 400
 ctggagcatc tacacctgag gacaagacgc tgcccacccg cgagggctga 450
 aaaccccgcc gcggggagga ccgtccatcc ctttcccccg gccctctca 500
 ataaacgtgg ttaagagcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 550
 aaaaaaaaaa aaaaaaaaaa 570

<210> 408
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 408
 Met Lys Leu Ala Ala Leu Leu Gly Leu Cys Val Ala Leu Ser Cys
 1 5 10 15
 Ser Ser Ala Ala Ala Phe Leu Val Gly Ser Ala Lys Pro Val Ala
 20 25 30
 Gln Pro Val Ala Ala Leu Glu Ser Ala Ala Glu Ala Gly Ala Gly
 35 40 45
 Thr Leu Ala Asn Pro Leu Gly Thr Leu Asn Pro Leu Lys Leu Leu
 50 55 60
 Leu Ser Ser Leu Gly Ile Pro Val Asn His Leu Ile Glu Gly Ser
 65 70 75
 Gln Lys Cys Val Ala Glu Leu Gly Pro Gln Ala Val Gly Ala Val
 80 85 90
 Lys Ala Leu Lys Ala Leu Leu Gly Ala Leu Thr Val Phe Gly
 95 100

<210> 409
 <211> 2089
 <212> DNA
 <213> Homo sapiens

<400> 409
 tgaaggactt ttccaggacc caaggccaca cactggaagt cttgcagctg 50
 aaggagggca ctctttggcc tccgcagccg atcacatgaa ggtggtgcca 100
 agtctcctgc tctccgtcct cctggcacag gtgtggctgg taccggctt 150
 ggccccagc cctcagtcgc cagagacccc agcccctcag aaccagacca 200
 gcagggtagt gcaggctccc agggaggaag aggaagatga gcaggaggcc 250
 agcaggagga aggccggtga ggaagagaaa gcctggctga tggccagcag 300
 gcagcagctt gccaaaggaga cttcaaactt cggattcagc ctgctgcgaa 350
 agatctccat gaggcacgat ggcaacatgg tcttctctcc atttggcatg 400

P2730P1sequencelisting.txt

tccttggcca tgacaggctt gatgctgggg gccacagggc cgactgaaac 450
ccagatcaag agagggctcc acttgcaggc cctgaagccc accaagcccc 500
ggctcctgcc ttccctcttt aaggggactca gagagaccct ctcccgaac 550
ctggaactgg gcctctcaca ggggagtttt gccttcatcc acaaggattt 600
tgatgtcaaa gagactttct tcaatttatc caagagggtat tttgatacag 650
agtgcgtgcc tatgaatttt cgcaatgcct cacaggccaa aaggctcatg 700
aatcattaca ttaacaaaga gactcggggg aaaattccca aactgtttga 750
tgagattaat cctgaaacca aattaattct tgtggattac atcttgttca 800
aagggaaatg gttgacccca tttgaccctg tcttcaccga agtcgacact 850
ttccacctgg acaagtacaa gaccattaag gtgcccata tgtacggtgc 900
aggcaagttt gcctccacct ttgacaagaa ttttcgttgt catgtcctca 950
aactgcccta ccaaggaaat gccaccatgc tgggtggtcct catggagaaa 1000
atgggtgacc acctcgccct tgaagactac ctgaccacag acttggtgga 1050
gacatggctc agaaacatga aaaccagaaa catggaagtt ttctttccga 1100
agttcaagct agatcagaag tatgagatgc atgagctgct taggcagatg 1150
ggaatcagaa gaatcttctc accctttgct gaccttagtg aactctcagc 1200
tactggaaga aatctccaag tatccagggt tttacgaaga acagtgattg 1250
aagttgatga aaggggcact gaggcagtgg caggaatctt gtcagaaatt 1300
actgcttatt ccatgcctcc tgtcatcaaa gtggaccggc catttcattt 1350
catgatctat gaagaaacct ctggaatgct tctgtttctg ggcaggggtg 1400
tgaatccgac tctcctataa ttcaggacat gcataagcac ttcgtgctgt 1450
agtagatgct gaatctgagg tatcaaacac acacaggata ccagcaatgg 1500
atggcagggg agagtgttcc ttttgttctt aactagttaa ggggtgttctc 1550
aaataaatac agtagtcccc acttatctga gggggataca ttcaaagacc 1600
cccagcagat gcctgaaacg gtggacagtg ctgaacctta tatatatttt 1650
ttcttacaca tacataccta tgataaagtt taatttataa attaggcaca 1700
gtaagagatt aacaataata acaacattaa gtaaaatgag ttacttgaac 1750
gcaagcactg caataccata acagtcaaac tgattataga gaaggctact 1800
aagtgactca tgggcgagga gcatagacag tgtggagaca ttgggcaagg 1850
ggagaattca catcctgggt gggacagagc aggacgatgc aagattccat 1900
cccactactc agaatggcat gctgcttaag acttttagat tgtttatttc 1950
tggaattttt catttaatgt ttttgacca tggttgacca tggttaactg 2000
agactgcaga aagcaaaacc atggataagg gaggactact acaaaaagcat 2050
taaattgata catatttttt aaaaaaaaaa aaaaaaaaaa 2089

P2730P1sequencelisting.txt

<210> 410
 <211> 444
 <212> PRT
 <213> Homo sapiens

<400> 410
 Met Lys Val Val Pro Ser Leu Leu Leu Ser Val Leu Leu Ala Gln
 1 5 10 15
 Val Trp Leu Val Pro Gly Leu Ala Pro Ser Pro Gln Ser Pro Glu
 20 25 30
 Thr Pro Ala Pro Gln Asn Gln Thr Ser Arg Val Val Gln Ala Pro
 35 40 45
 Arg Glu Glu Glu Glu Asp Glu Gln Glu Ala Ser Glu Glu Lys Ala
 50 55 60
 Gly Glu Glu Glu Lys Ala Trp Leu Met Ala Ser Arg Gln Gln Leu
 65 70 75
 Ala Lys Glu Thr Ser Asn Phe Gly Phe Ser Leu Leu Arg Lys Ile
 80 85 90
 Ser Met Arg His Asp Gly Asn Met Val Phe Ser Pro Phe Gly Met
 95 100 105
 Ser Leu Ala Met Thr Gly Leu Met Leu Gly Ala Thr Gly Pro Thr
 110 115 120
 Glu Thr Gln Ile Lys Arg Gly Leu His Leu Gln Ala Leu Lys Pro
 125 130 135
 Thr Lys Pro Gly Leu Leu Pro Ser Leu Phe Lys Gly Leu Arg Glu
 140 145 150
 Thr Leu Ser Arg Asn Leu Glu Leu Gly Leu Ser Gln Gly Ser Phe
 155 160 165
 Ala Phe Ile His Lys Asp Phe Asp Val Lys Glu Thr Phe Phe Asn
 170 175 180
 Leu Ser Lys Arg Tyr Phe Asp Thr Glu Cys Val Pro Met Asn Phe
 185 190 195
 Arg Asn Ala Ser Gln Ala Lys Arg Leu Met Asn His Tyr Ile Asn
 200 205 210
 Lys Glu Thr Arg Gly Lys Ile Pro Lys Leu Phe Asp Glu Ile Asn
 215 220 225
 Pro Glu Thr Lys Leu Ile Leu Val Asp Tyr Ile Leu Phe Lys Gly
 230 235 240
 Lys Trp Leu Thr Pro Phe Asp Pro Val Phe Thr Glu Val Asp Thr
 245 250 255
 Phe His Leu Asp Lys Tyr Lys Thr Ile Lys Val Pro Met Met Tyr
 260 265 270
 Gly Ala Gly Lys Phe Ala Ser Thr Phe Asp Lys Asn Phe Arg Cys
 275 280 285
 His Val Leu Lys Leu Pro Tyr Gln Gly Asn Ala Thr Met Leu Val
 290 295 300
 Val Leu Met Glu Lys Met Gly Asp His Leu Ala Leu Glu Asp Tyr
 305 310 315

P2730P1sequencelisting.txt

Leu Thr Thr Asp Leu Val Glu Thr Trp Leu Arg Asn Met Lys Thr
 320 325 330
 Arg Asn Met Glu Val Phe Phe Pro Lys Phe Lys Leu Asp Gln Lys
 335 340 345
 Tyr Glu Met His Glu Leu Leu Arg Gln Met Gly Ile Arg Arg Ile
 350 355 360
 Phe Ser Pro Phe Ala Asp Leu Ser Glu Leu Ser Ala Thr Gly Arg
 365 370 375
 Asn Leu Gln Val Ser Arg Val Leu Arg Arg Thr Val Ile Glu Val
 380 385 390
 Asp Glu Arg Gly Thr Glu Ala Val Ala Gly Ile Leu Ser Glu Ile
 395 400 405
 Thr Ala Tyr Ser Met Pro Pro Val Ile Lys Val Asp Arg Pro Phe
 410 415 420
 His Phe Met Ile Tyr Glu Glu Thr Ser Gly Met Leu Leu Phe Leu
 425 430 435
 Gly Arg Val Val Asn Pro Thr Leu Leu
 440

<210> 411
 <211> 636
 <212> DNA
 <213> Homo sapiens

<400> 411
 ctgggatcag ccactgcagc tccctgagca ctctctacag agacgcggac 50
 cccagacatg aggaggtccc tcctgggtcac cagcctggtg gttgtgctgc 100
 tgtgggaggc aggtgcagtc ccagcaccca aggtccctat caagatgcaa 150
 gtcaaacact ggccctcaga gcaggacca gagaaggcct ggggcgcccg 200
 tgtggtggag cctccggaga aggacgacca gctggtggtg ctgttccttg 250
 tccagaagcc gaaactcttg accaccgagg agaagccacg aggtcagggc 300
 aggggccccca tccttcagg caccaaggcc tggatggaga ccgaggacac 350
 cctgggccgt gtcctgagtc ccgagcccga ccatgacagc ctgtaccacc 400
 ctccgcctga ggaggaccag ggcgaggaga ggccccggtt gtgggtgatg 450
 ccaaatacacc aggtgctcct gggaccggag gaagaccaag accacatcta 500
 ccacccccag tagggctcca ggggcatca ctgccccgc cctgtcccaa 550
 ggcccaggct gttgggactg ggaccctccc taccctgccc cagctagaca 600
 aataaacccc agcaggcaaa aaaaaaaaaa aaaaaa 636

<210> 412
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 412
 Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu
 1 5 10 15

P2730P1sequencelisting.txt

Trp Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met
20 25 30
Gln Val Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp
35 40 45
Gly Ala Arg Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val
50 55 60
Val Leu Phe Pro Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu
65 70 75
Lys Pro Arg Gly Gln Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys
80 85 90
Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
95 100 105
Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp
110 115 120
Gln Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln
125 130 135
Val Leu Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro
140 145 150

Gln

<210> 413
<211> 1176
<212> DNA
<213> Homo sapiens

<400> 413
agaaagctgc actctgttga gctccagggc gcagtggagg gagggagtga 50
aggagctctc tgtacccaag gaaagtgcag ctgagactca gacaagatta 100
caatgaacca actcagcttc ctgctgtttc tcatagcgac caccagagga 150
tggagtacag atgaggctaa tacttacttc aaggaatgga cctgttcttc 200
gtctccatct ctgcccagaa gctgcaagga aatcaaagac gaatgtccta 250
gtgcatttga tggcctgtat tttctccgca ctgagaatgg tgttatctac 300
cagaccttct gtgacatgac ctctgggggt ggcggctgga ccctggtggc 350
cagcgtgcat gagaatgaca tgcgtgggaa gtgcacggtg ggcgatcgct 400
gggtccagtca gcagggcagc aaagcagact acccagaggg ggacggcaac 450
tggggcaact acaacacctt tggatctgca gaggcggcca cgagcgatga 500
ctacaagaac cctggctact acgacatcca ggccaaggac ctgggcatct 550
ggcacgtgcc caataagtcc cccatgcagc actggagaaa cagctccctg 600
ctgaggtacc gcacggacac tggcttctc cagacactgg gacataatct 650
gtttggcatc taccagaaat atccagtga atatggagaa ggaaagtgtt 700
ggactgacaa cggcccggtg atccctgtgg tctatgattt tggcgacgcc 750
cagaaaacag catcttatta ctcaccctat ggccagcggg aattcactgc 800

P2730P1sequencelisting.txt

gggatttggt cagttcaggg tatttaataa cgagagagca gccaacgcct 850
 tgtgtgctgg aatgaggggtc accggatgta aactgagca tcaactgcatt 900
 ggtggaggag gatactttcc agaggccagt cccagcagt gtggagattt 950
 ttctggtttt gattggagtg gatatggaac tcatgttggt tacagcagca 1000
 gccgtgagat aactgaggca gctgtgcttc tattctatcg ttgagagttt 1050
 tgtgggaggg aaccagacc tctcctcca accatgagat cccaaggatg 1100
 gagaacaact taccagtag ctagaatgtt aatggcagaa gagaaaacaa 1150
 taaatcatat tgactcaaga aaaaaa 1176

<210> 414

<211> 313

<212> PRT

<213> Homo sapiens

<400> 414

Met	Asn	Gln	Leu	Ser	Phe	Leu	Leu	Phe	Leu	Ile	Ala	Thr	Thr	Arg	1	5	10	15
Gly	Trp	Ser	Thr	Asp	Glu	Ala	Asn	Thr	Tyr	Phe	Lys	Glu	Trp	Thr	20	25	30	
Cys	Ser	Ser	Ser	Pro	Ser	Leu	Pro	Arg	Ser	Cys	Lys	Glu	Ile	Lys	35	40	45	
Asp	Glu	Cys	Pro	Ser	Ala	Phe	Asp	Gly	Leu	Tyr	Phe	Leu	Arg	Thr	50	55	60	
Glu	Asn	Gly	Val	Ile	Tyr	Gln	Thr	Phe	Cys	Asp	Met	Thr	Ser	Gly	65	70	75	
Gly	Gly	Gly	Trp	Thr	Leu	Val	Ala	Ser	Val	His	Glu	Asn	Asp	Met	80	85	90	
Arg	Gly	Lys	Cys	Thr	Val	Gly	Asp	Arg	Trp	Ser	Ser	Gln	Gln	Gly	95	100	105	
Ser	Lys	Ala	Asp	Tyr	Pro	Glu	Gly	Asp	Gly	Asn	Trp	Ala	Asn	Tyr	110	115	120	
Asn	Thr	Phe	Gly	Ser	Ala	Glu	Ala	Ala	Thr	Ser	Asp	Asp	Tyr	Lys	125	130	135	
Asn	Pro	Gly	Tyr	Tyr	Asp	Ile	Gln	Ala	Lys	Asp	Leu	Gly	Ile	Trp	140	145	150	
His	Val	Pro	Asn	Lys	Ser	Pro	Met	Gln	His	Trp	Arg	Asn	Ser	Ser	155	160	165	
Leu	Leu	Arg	Tyr	Arg	Thr	Asp	Thr	Gly	Phe	Leu	Gln	Thr	Leu	Gly	170	175	180	
His	Asn	Leu	Phe	Gly	Ile	Tyr	Gln	Lys	Tyr	Pro	Val	Lys	Tyr	Gly	185	190	195	
Glu	Gly	Lys	Cys	Trp	Thr	Asp	Asn	Gly	Pro	Val	Ile	Pro	Val	Val	200	205	210	
Tyr	Asp	Phe	Gly	Asp	Ala	Gln	Lys	Thr	Ala	Ser	Tyr	Tyr	Ser	Pro	215	220	225	

P2730P1sequencelisting.txt

Tyr Gly Gln Arg Glu Phe Thr Ala Gly Phe Val Gln Phe Arg Val
 230 235 240
 Phe Asn Asn Glu Arg Ala Ala Asn Ala Leu Cys Ala Gly Met Arg
 245 250 255
 Val Thr Gly Cys Asn Thr Glu His His Cys Ile Gly Gly Gly Gly
 260 265 270
 Tyr Phe Pro Glu Ala Ser Pro Gln Gln Cys Gly Asp Phe Ser Gly
 275 280 285
 Phe Asp Trp Ser Gly Tyr Gly Thr His Val Gly Tyr Ser Ser Ser
 290 295 300
 Arg Glu Ile Thr Glu Ala Ala Val Leu Leu Phe Tyr Arg
 305 310

<210> 415

<211> 1281

<212> DNA

<213> Homo sapiens

<400> 415

gcggagccgg cgccggctgc gcagaggagc cgctctcgcc gccgccacct 50
 cggctgggag ccacgaggc tgccgcatcc tgccctcgga acaatgggac 100
 tcggcgcgcg aggtgcttgg gccgcgctgc tcctggggac gctgcagggtg 150
 ctagcgctgc tgggggccgc ccatgaaagc gcagccatgg cggcatctgc 200
 aaacatagag aattctgggc ttccacacaa ctccagtgtt aactcaacag 250
 agactctcca acatgtgcct tctgaccata caaatgaaac ttccaacagt 300
 actgtgaaac caccaacttc agttgcctca gactccagta atacaacggt 350
 caccaccatg aaacctacag cggcatctaa tacaacaaca ccagggatgg 400
 tctcaacaaa tatgacttct accaccttaa agtctacacc caaaacaaca 450
 agtgtttcac agaacacatc tcagatatca acatccacaa tgaccgtaac 500
 ccacaatagt tcagtgcacat ctgctgcttc atcagtaaca atcacaacaa 550
 ctatgcattc tgaagcaaag aaaggatcaa aatttgatac tgggagcttt 600
 gttggtggta ttgtattaac gctgggagtt ttatctattc ttacattgg 650
 atgcaaaatg tattactcaa gaagaggcat tcggtatcga accatagatg 700
 aacatgatgc catcatttaa ggaaatccat ggaccaagga tggaatacag 750
 attgatgctg ccctatcaat taattttggt ttattaatag tttaaaacaa 800
 tattctcttt ttgaaaatag tataaacagg ccatgcatat aatgtacagt 850
 gtattacgta aatatgtaaa gattcttcaa ggtaacaagg gtttggggtt 900
 tgaaataaac atctggatct tatagaccgt tcatacaatg gttttagcaa 950
 gttcatagta agacaaacaa gtcctatctt ttttttttgg ctgggggtgg 1000
 ggcattgggt acatatgacc agtaattgaa agacgtcatc actgaaagac 1050
 agaatgccat ctgggcatac aaataagaag tttgtcacag cactcaggat 1100

P2730P1sequencelisting.txt

tttgggtatc tttttagtct cacataaaga acttcagtgc ttttcagagc 1150
 tggatatatc ttaattacta atgccacaca gaaattatac aatcaaacta 1200
 gatctgaagc ataatttaag aaaaacatca acattttttg tgcttttaaac 1250
 tgtagtagtt ggtctagaaa caaaatactc c 1281

<210> 416
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 416
 Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly 15
 1 5 10
 Thr Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala 30
 20 25 30
 Ala Met Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His 45
 35 40 45
 Asn Ser Ser Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser 60
 50 55 60
 Asp His Thr Asn Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr 75
 65 70 75
 Ser Val Ala Ser Asp Ser Ser Asn Thr Thr Val Thr Thr Met Lys 90
 80 85 90
 Pro Thr Ala Ala Ser Asn Thr Thr Thr Pro Gly Met Val Ser Thr 105
 95 100 105
 Asn Met Thr Ser Thr Thr Leu Lys Ser Thr Pro Lys Thr Thr Ser 120
 110 115 120
 Val Ser Gln Asn Thr Ser Gln Ile Ser Thr Ser Thr Met Thr Val 135
 125 130 135
 Thr His Asn Ser Ser Val Thr Ser Ala Ala Ser Ser Val Thr Ile 150
 140 145 150
 Thr Thr Thr Met His Ser Glu Ala Lys Lys Gly Ser Lys Phe Asp 165
 155 160 165
 Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr Leu Gly Val Leu 180
 170 175 180
 Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser Arg Arg Gly 195
 185 190 195
 Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile 205
 200 205

<210> 417
 <211> 1728
 <212> DNA
 <213> Homo sapiens

<400> 417
 cagccgggtc ccaagcctgt gcctgagcct gagcctgagc ctgagcccga 50
 gccgggagcc ggctcgcgggg gctccgggct gtgggaccgc tgggccccca 100
 gcgatggcga ccctgtgggg aggccttctt cggcttggtc ccttgctcag 150

P2730P1sequencelisting.txt

```

cctgtcgtgc ctggcgcttt ccgtgctgct gctggcgag ctgtcagacg 200
ccgccaagaa tttcgaggat gtcagatgta aatgtatctg ccctccctat 250
aaagaaaatt ctgggcatat ttataataag aacatctctc agaaagattg 300
tgattgcctt catgttgtgg agcccatgcc tgtgcggggg cctgatgtag 350
aagcatactg tctacgctgt gaatgcaa atgaagaaag aagctctgtc 400
acaatcaagg ttaccattat aatttatctc tccattttgg gccttctact 450
tctgtacatg gtatatctta ctctggttga gcccatactg aagaggcgcc 500
tctttggaca tgcacagttg atacagagtg atgatgatat tggggatcac 550
cagccttttg caaatgcaca cgatgtgcta gcccgtccc gcagtcgagc 600
caacgtgctg aacaaggtag aatatgcaca gcagcgctgg aagcttcaag 650
tccaagagca gcgaaagtct gtctttgacc ggcatgttgt cctcagctaa 700
ttgggaattg aattcaagg gactagaaag aaacaggcag acaactggaa 750
agaactgact gggttttgct gggtttcatt ttaatacctt gttgatttca 800
ccaactgttg ctggaagatt caaaactgga agcaaaaact tgcttgattt 850
ttttttcttg ttaacgtaat aatagagaca tttttaaaag cacacagctc 900
aaagtcagcc aataagtctt ttcctatttg tgacttttac taataaaaat 950
aaatctgcct gtaaattatc ttgaagtcct ttacctggaa caagcactct 1000
ctttttcacc acatagtttt aacttgactt tcaagataat tttcagggtt 1050
tttgttgttg ttgttttttg tttgtttgtt ttggtgggag aggggagggg 1100
tgcctgggaa gtggttaaca acttttttca agtcacttta ctaaacaac 1150
ttttgtaaat agaccttacc ttctattttc gagtttcatt tatattttgc 1200
agtgtagcca gcctcatcaa agagctgact tactcatttg acttttgcac 1250
tgactgtatt atctgggtat ctgctgtgtc tgcacttcat ggtaaacggg 1300
atctaaaatg cctggtggct tttcacaaaa agcagatttt cttcatgtac 1350
tgtgatgtct gatgcaatgc atcctagaac aaactggcca tttgctagtt 1400
tactctaaag actaaacata gtcttggtgt gtgtggtctt actcatcttc 1450
tagtaccttt aaggacaaat cctaaggact tggacacttg caataaagaa 1500
attttatttt aaaccaagc ctccctggat tgataatata tacacatttg 1550
tcagcatttc cggtcgtggt gagaggcagc tgtttgagct ccaatatgtg 1600
cagctttgaa ctagggctgg ggttgtgggt gcctcttctg aaaggtctaa 1650
ccattatttg ataactggct tttttcttcc tatgtcctct ttggaatgta 1700
acaataaaaa taatttttga aacatcaa 1728

```

<210> 418
 <211> 198
 <212> PRT
 <213> Homo sapiens

P2730P1sequencelisting.txt

<400> 418

```

Met Ala Thr Leu Trp Gly Gly Leu Leu Arg Leu Gly Ser Leu Leu
 1      5      10      15
Ser Leu Ser Cys Leu Ala Leu Ser Val Leu Leu Leu Ala Gln Leu
20      25      30
Ser Asp Ala Ala Lys Asn Phe Glu Asp Val Arg Cys Lys Cys Ile
35      40      45
Cys Pro Pro Tyr Lys Glu Asn Ser Gly His Ile Tyr Asn Lys Asn
50      55      60
Ile Ser Gln Lys Asp Cys Asp Cys Leu His Val Val Glu Pro Met
65      70      75
Pro Val Arg Gly Pro Asp Val Glu Ala Tyr Cys Leu Arg Cys Glu
80      85      90
Cys Lys Tyr Glu Glu Arg Ser Ser Val Thr Ile Lys Val Thr Ile
95      100     105
Ile Ile Tyr Leu Ser Ile Leu Gly Leu Leu Leu Leu Tyr Met Val
110     115     120
Tyr Leu Thr Leu Val Glu Pro Ile Leu Lys Arg Arg Leu Phe Gly
125     130     135
His Ala Gln Leu Ile Gln Ser Asp Asp Asp Ile Gly Asp His Gln
140     145     150
Pro Phe Ala Asn Ala His Asp Val Leu Ala Arg Ser Arg Ser Arg
155     160     165
Ala Asn Val Leu Asn Lys Val Glu Tyr Ala Gln Gln Arg Trp Lys
170     175     180
Leu Gln Val Gln Glu Gln Arg Lys Ser Val Phe Asp Arg His Val
185     190     195

Val Leu Ser

```

<210> 419

<211> 681

<212> DNA

<213> Homo sapiens

<400> 419

```

gcacctgcga ccaccgtgag cagtcattggc gtactccaca gtgcagagag 50
tcgctctggc ttctgggctt gtcctggctc tgtcgtgct gctgccaag 100
gccttcctgt cccgcgggaa gcggcaggag ccgccgccga cacctgaagg 150
aaaattgggc cgatttccac ctatgatgca tcatcaccag gcaccctcag 200
atggccagac tcctggggct cgtttcaga ggtctcacct tgccgaggca 250
tttgcaaagg ccaaaggatc aggtggaggt gctggaggag gaggtagtgg 300
aagaggtctg atggggcaga ttattccaat ctacggtttt gggatttttt 350
tatatatact gtacattcta tttaaggtaa gtagaatcat cctaatacata 400
ttacatcaat gaaaatctaa tatggcgata aaaatcattg tctacattaa 450

```

P2730P1sequencelisting.txt

aactttcttat agttcataaa attattttcaa atccatcatc tcttttaaattc 500
 ctgcctcctc ttcattgaggt acttaggata gccattattt cagttttcaca 550
 taagaatggt tactcaatgt ttaagtgttt tgcccaaaa ttcacaacta 600
 acaaggcaga actaggactt gaacatggat cttttggttc ttaatccagt 650
 gaggatata attcaatgca ctcccctgcc a 681

<210> 420
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 420
 Met Ala Tyr Ser Thr Val Gln Arg Val Ala Leu Ala Ser Gly Leu
 1 5 10 15
 Val Leu Ala Leu Ser Leu Leu Leu Pro Lys Ala Phe Leu Ser Arg
 20 25 30
 Gly Lys Arg Gln Glu Pro Pro Pro Thr Pro Glu Gly Lys Leu Gly
 35 40 45
 Arg Phe Pro Pro Met Met His His His Gln Ala Pro Ser Asp Gly
 50 55 60
 Gln Thr Pro Gly Ala Arg Phe Gln Arg Ser His Leu Ala Glu Ala
 65 70 75
 Phe Ala Lys Ala Lys Gly Ser Gly Gly Gly Ala Gly Gly Gly Gly
 80 85 90
 Ser Gly Arg Gly Leu Met Gly Gln Ile Ile Pro Ile Tyr Gly Phe
 95 100 105
 Gly Ile Phe Leu Tyr Ile Leu Tyr Ile Leu Phe Lys Val Ser Arg
 110 115 120
 Ile Ile Leu Ile Ile Leu His Gln
 125

<210> 421
 <211> 1630
 <212> DNA
 <213> Homo sapiens

<400> 421
 cggctcgagt gcagctgtgg ggagatttca gtgcattgcc tcccctgggt 50
 gctcttcattc ttggatttga aagttgagag cagcatgttt tgcccactga 100
 aactcatcct gctgccagtg ttactggatt attccttggg cctgaatgac 150
 ttgaatgttt ccccgctga gctaacagtc catgtgggtg attcagctct 200
 gatgggatgt gttttccaga gcacagaaga caaatgtata ttcaagatag 250
 actggactct gtcaccagga gagcacgcca aggacgaata tgtgctatac 300
 tattactcca atctcagtgt gcctattggg cgcttcaga accgcgtaca 350
 cttgatgggg gacatcttat gcaatgatgg ctctctcctg ctccaagatg 400
 tgcaagaggc tgaccagga acctatatct gtgaaatccg cctcaaaggg 450
 gagagccagg tgttcaagaa ggcggtggtg ctgcatgtgc ttccagagga 500

P2730P1sequencelisting.txt

gccc aaagag ctcatggtcc atgtgggtgg attgattcag atgggatgtg 550
 ttttccagag cacagaagtg aaacacgtga ccaaggtaga atggatattt 600
 tcaggacggc gcgcaaagga ggagattgta tttcgttact accacaaact 650
 caggatgtct gtggagtact cccagagctg gggccacttc cagaatcgtg 700
 tgaacctggt gggggacatt ttccgcaatg acggttccat catgcttcaa 750
 ggagtgaggg agtcagatgg aggaaactac acctgcagta tccacctagg 800
 gaacctggtg ttcaagaaaa ccattgtgct gcatgtcagc ccggaagagc 850
 ctcgaacact ggtgaccccc gcagccctga ggcctctggt cttgggtggt 900
 aatcagttgg tgatcattgt gggaattgtc tgtgccacaa tcctgctgct 950
 ccctgttctg atattgatcg tgaagaagac ctgtggaaat aagagttcag 1000
 tgaattctac agtcttggtg aagaacacga agaagactaa tccagagata 1050
 aaagaaaaac cctgccattt tgaaagatgt gaaggggaga aacacattta 1100
 ctccccaata attgtacggg aggtgatcga ggaagaagaa ccaagtgaaa 1150
 aatcagaggc cacctacatg accatgcacc cagtttgGCC ttctctgagg 1200
 tcagatcgga acaactcact tgaaaaaaag tcaggtgggg gaatgccaaa 1250
 aacacagcaa gccttttgag aagaatggag agtcccttca tctcagcagc 1300
 ggtggagact ctctcctgtg tgtgtcctgg gccactctac cagtgatttc 1350
 agactccgc tctccagct gtcctcctgt ctattgttt ggtcaataca 1400
 ctgaagatgg agaatttgga gcctggcaga gagactggac agctctggag 1450
 gaacaggcct gctgagggga ggggagcatg gacttggcct ctggagtggg 1500
 aactggccc tgggaaccag gctgagctga gtggcctcaa acccccgtt 1550
 ggatcagacc ctctgtggg cagggttctt agtggatgag ttactgggaa 1600
 gaatcagaga taaaaccaa cccaaatcaa 1630

<210> 422
 <211> 394
 <212> PRT
 <213> Homo sapiens

<400> 422
 Met Phe Cys Pro Leu Lys Leu Ile Leu Leu Pro Val Leu Leu Asp
 1 5 10 15
 Tyr Ser Leu Gly Leu Asn Asp Leu Asn Val Ser Pro Pro Glu Leu
 20 25 30
 Thr Val His Val Gly Asp Ser Ala Leu Met Gly Cys Val Phe Gln
 35 40 45
 Ser Thr Glu Asp Lys Cys Ile Phe Lys Ile Asp Trp Thr Leu Ser
 50 55 60
 Pro Gly Glu His Ala Lys Asp Glu Tyr Val Leu Tyr Tyr Tyr Ser
 65 70 75

P2730P1sequencelisting.txt

Asn	Leu	Ser	Val	Pro	Ile	Gly	Arg	Phe	Gln	Asn	Arg	Val	His	Leu
				80					85					90
Met	Gly	Asp	Ile	Leu	Cys	Asn	Asp	Gly	Ser	Leu	Leu	Leu	Gln	Asp
				95					100					105
Val	Gln	Glu	Ala	Asp	Gln	Gly	Thr	Tyr	Ile	Cys	Glu	Ile	Arg	Leu
				110					115					120
Lys	Gly	Glu	Ser	Gln	Val	Phe	Lys	Lys	Ala	Val	Val	Leu	His	Val
				125					130					135
Leu	Pro	Glu	Glu	Pro	Lys	Glu	Leu	Met	Val	His	Val	Gly	Gly	Leu
				140					145					150
Ile	Gln	Met	Gly	Cys	Val	Phe	Gln	Ser	Thr	Glu	Val	Lys	His	Val
				155					160					165
Thr	Lys	Val	Glu	Trp	Ile	Phe	Ser	Gly	Arg	Arg	Ala	Lys	Glu	Glu
				170					175					180
Ile	Val	Phe	Arg	Tyr	Tyr	His	Lys	Leu	Arg	Met	Ser	Val	Glu	Tyr
				185					190					195
Ser	Gln	Ser	Trp	Gly	His	Phe	Gln	Asn	Arg	Val	Asn	Leu	Val	Gly
				200					205					210
Asp	Ile	Phe	Arg	Asn	Asp	Gly	Ser	Ile	Met	Leu	Gln	Gly	Val	Arg
				215					220					225
Glu	Ser	Asp	Gly	Gly	Asn	Tyr	Thr	Cys	Ser	Ile	His	Leu	Gly	Asn
				230					235					240
Leu	Val	Phe	Lys	Lys	Thr	Ile	Val	Leu	His	Val	Ser	Pro	Glu	Glu
				245					250					255
Pro	Arg	Thr	Leu	Val	Thr	Pro	Ala	Ala	Leu	Arg	Pro	Leu	Val	Leu
				260					265					270
Gly	Gly	Asn	Gln	Leu	Val	Ile	Ile	Val	Gly	Ile	Val	Cys	Ala	Thr
				275					280					285
Ile	Leu	Leu	Leu	Pro	Val	Leu	Ile	Leu	Ile	Val	Lys	Lys	Thr	Cys
				290					295					300
Gly	Asn	Lys	Ser	Ser	Val	Asn	Ser	Thr	Val	Leu	Val	Lys	Asn	Thr
				305					310					315
Lys	Lys	Thr	Asn	Pro	Glu	Ile	Lys	Glu	Lys	Pro	Cys	His	Phe	Glu
				320					325					330
Arg	Cys	Glu	Gly	Glu	Lys	His	Ile	Tyr	Ser	Pro	Ile	Ile	Val	Arg
				335					340					345
Glu	Val	Ile	Glu	Glu	Glu	Glu	Pro	Ser	Glu	Lys	Ser	Glu	Ala	Thr
				350					355					360
Tyr	Met	Thr	Met	His	Pro	Val	Trp	Pro	Ser	Leu	Arg	Ser	Asp	Arg
				365					370					375
Asn	Asn	Ser	Leu	Glu	Lys	Lys	Ser	Gly	Gly	Gly	Met	Pro	Lys	Thr
				380					385					390
Gln	Gln	Ala	Phe											

<210> 423

<211> 963

P2730P1sequencelisting.txt

<212> DNA

<213> Homo sapiens

<400> 423

```
ctatgaagaa gcttcctgga aaacaataag caaaggaaaa caaatgtgtc 50
ccatctcaca tggttctacc ctactaaaga caggaagatc ataaactgac 100
agatactgaa attgtaagag ttggaaacta cattttgcaa agtcattgaa 150
ctctgagctc agttgcagta ctcgggaagc catgcaggat gaagatggat 200
acatcacctt aaatattaaa actcggaaac cagctctcgt ctccgttggc 250
cctgcatcct cctcctggtg gcgtgtgatg gctttgattc tgctgaccc 300
gtgcgtgggg atggttgtcg ggctggtggc tctggggatt tggctctgtca 350
tgcagcgcaa ttacctacaa gatgagaatg aaaatcgcac aggaactctg 400
caacaattag caaagcgctt ctgtcaatat gtggtaaaac aatcagaact 450
aaagggcact ttcaaagggtc ataaatgcag cccctgtgac acaaactgga 500
gatattatgg agatagctgc tatgggttct tcaggcacia cttaacatgg 550
gaagagagta agcagtactg cactgacatg aatgctactc tcctgaagat 600
tgacaaccgg aacattgtgg agtacatcaa agccaggact catttaattc 650
gttgggtcgg attatctcgc cagaagtcga atgaggtctg gaagtgggag 700
gatggctcgg ttatctcaga aaatatgttt gagtttttgg aagatggaaa 750
aggaaatatg aattgtgctt attttcataa tgggaaaatg caccctacct 800
tctgtgagaa caaacattat ttaatgtgtg agaggaaggc tggcatgacc 850
aaggtggacc aactacctta atgcaaagag gtggacagga taacacagat 900
aagggtctta ttgtacaata aaagatatgt atgaatgcat cagtagctga 950
aaaaaaaaaa aaa 963
```

<210> 424

<211> 229

<212> PRT

<213> Homo sapiens

<400> 424

```
Met Gln Asp Glu Asp Gly Tyr Ile Thr Leu Asn Ile Lys Thr Arg
 1          5          10          15
Lys Pro Ala Leu Val Ser Val Gly Pro Ala Ser Ser Ser Trp Trp
          20          25          30
Arg Val Met Ala Leu Ile Leu Leu Ile Leu Cys Val Gly Met Val
          35          40          45
Val Gly Leu Val Ala Leu Gly Ile Trp Ser Val Met Gln Arg Asn
          50          55          60
Tyr Leu Gln Asp Glu Asn Glu Asn Arg Thr Gly Thr Leu Gln Gln
          65          70          75
Leu Ala Lys Arg Phe Cys Gln Tyr Val Val Lys Gln Ser Glu Leu
          80          85          90
```

P2730P1sequencelisting.txt

Lys Gly Thr Phe	Lys Gly His Lys Cys	Ser Pro Cys Asp Thr	Asn
95	100		105
Trp Arg Tyr Tyr	Gly Asp Ser Cys Tyr	Gly Phe Phe Arg His	Asn
110	115		120
Leu Thr Trp Glu	Glu Ser Lys Gln Tyr	Cys Thr Asp Met Asn	Ala
125	130		135
Thr Leu Leu Lys	Ile Asp Asn Arg Asn	Ile Val Glu Tyr Ile	Lys
140	145		150
Ala Arg Thr His	Leu Ile Arg Trp Val	Gly Leu Ser Arg Gln	Lys
155	160		165
Ser Asn Glu Val	Trp Lys Trp Glu Asp	Gly Ser Val Ile Ser	Glu
170	175		180
Asn Met Phe Glu	Phe Leu Glu Asp Gly	Lys Gly Asn Met Asn	Cys
185	190		195
Ala Tyr Phe His	Asn Gly Lys Met His	Pro Thr Phe Cys Glu	Asn
200	205		210
Lys His Tyr Leu	Met Cys Glu Arg Lys	Ala Gly Met Thr Lys	Val
215	220		225

Asp Gln Leu Pro

<210> 425
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 425
 tgcagcccct gtgacacaaa ctgg 24

<210> 426
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 426
 ctgagataac cgagccatcc tcccac 26

<210> 427
 <211> 49
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 427
 gcttcctgac actaaggctg tctgctagtc agaattgcct caaaaagag 49

<210> 428
 <211> 21
 <212> DNA
 <213> Artificial Sequence

P2730P1sequencelisting.txt

<220>
<223> Synthetic oligonucleotide probe

<400> 428
ccaccaatgg cagccccacc t 21

<210> 429
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 429
gactgccctc cctgcca 17

<210> 430
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 430
caaaaagcct ggaagcttc aaag 24

<210> 431
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 431
cagctggact gcaggtgcta 20

<210> 432
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 432
cagtgagcac agcaagtgtc ct 22

<210> 433
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 433
ggccacctcc ttgagtcttc agttccct 28

<210> 434
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

P2730P1sequencelisting.txt

<400> 434
caactactgg ctaaagctgg tgaa 24

<210> 435
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 435
cctttctgta taggtgatac ccaatga 27

<210> 436
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 436
tgcccatccc taccagaggc aaaa 24

<210> 437
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 437
ctgaagacga cgcggattac ta 22

<210> 438
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 438
ggcagaaatg ggaggcaga 19

<210> 439
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 439
tgctctgttg gctacggctt tagtccctag 30

<210> 440
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 440

agcagcagcc atgtagaatg aa 22

<210> 441

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 441

aatacgaaca gtgcacgctg at 22

<210> 442

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 442

tccagagagc caagcacggc aga 23

<210> 443

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 443

tctagccagc ttggctccaa ta 22

<210> 444

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 444

cctggctcta gcaccaactc ata 23

<210> 445

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 445

tcagtggccc taaggagatg ggcct 25

<210> 446

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 446

caggatacag tgggaatctt gaga 24

<210> 447
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 447
 cctgaagggc ttggagctta gt 22

<210> 448
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 448
 tctttggcca tttcccatgg ctca 24

<210> 449
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 449
 cccatggcga ggaggaat 18

<210> 450
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 450
 tgcgtacgtg tgccttcag 19

<210> 451
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 451
 cagcacccca ggcagtctgt gtgt 24

<210> 452
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 452
 aacgtgctac acgaccagtgt tact 24

<210> 453
 <211> 27

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 453
cacagcatat tcagatgact aaatcca 27

<210> 454
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 454
ttgttttagtt ctccaccgtg tctccacaga a 31

<210> 455
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 455
tgtcagaatg caacctggct t 21

<210> 456
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 456
tgatgtgcct ggctcagaac 20

<210> 457
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 457
tgcacctaga tgtccccagc accc 24

<210> 458
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 458
aagatgcgcc aggcttctta 20

<210> 459
<211> 24
<212> DNA
<213> Artificial Sequence


```

<220>
<223> synthetic oligonucleotide probe

<400> 459
ctcctgtacg gtctgctcac ttat 24

<210> 460
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 460
tggctgtcag tccagtgtgc atgg 24

<210> 461
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 461
gcatagggat agataagatc ctgctttat 29

<210> 462
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 462
caaattaaag tacccatcag gagagaa 27

<210> 463
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 463
aagttgctaa atatatacat tatctgccc aagtcca 37

<210> 464
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 464
gtgctgcca caattcatga 20

<210> 465
<211> 26
<212> DNA
<213> Artificial Sequence

<220>

```

<223> Synthetic oligonucleotide probe

<400> 465
gtccttgga tgggtctgaa ttatat 26

<210> 466
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 466
actctctgca cccacagtc accactatct c 31

<210> 467
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 467
ctgaggaacc agccatgtct ct 22

<210> 468
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 468
gaccagatgc aggtacagga tga 23

<210> 469
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 469
ctgccccttc agtgatgcca acctt 25

<210> 470
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 470
gggtggaggc tctactgagta ga 22

<210> 471
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 471
caatacagggt aatgaaactc tgcttctt 28

<210> 472
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 472
tcctcttaag cataggccat tttctcagtt tagaca 36

<210> 473
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 473
ggtggtcttg cttggtctca c 21

<210> 474
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 474
ccgtcgttca gcaacatgac 20

<210> 475
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 475
accgcctacc gctgtgccca 20

<210> 476
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 476
cagtaaaacc acaggctgga ttt 23

<210> 477
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 477
cctgagagca agaaggttga gaat 24

<210> 478
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 478
 tagacagga ccatggcccg ca 22

<210> 479
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 479
 tgggctgtag aagagttgtt g 21

<210> 480
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 480
 tccacacttg gccagtttat 20

<210> 481
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 481
 cccaacttct cccttttgga ccct 24

<210> 482
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 482
 gtcccttcac tgtttagagc atga 24

<210> 483
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 483
 actctcccc tcaacagcct cctgag 26

<210> 484

```

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 484
gtggtcaggg cagatccttt 20

<210> 485
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 485
acagatccag gagagactcc aca 23

<210> 486
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 486
agcggcgctc ccagcctgaa t 21

<210> 487
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 487
catgattggt cctcagttcc atc 23

<210> 488
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 488
atagagggct cccagaagtg 20

<210> 489
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 489
cagggccttc agggccttca c 21

<210> 490
<211> 19
<212> DNA

```

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 490

gctcagccaa acactgtca 19

<210> 491

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 491

ggggccctga cagtgtt 17

<210> 492

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 492

ctgagccgag actggagcat ctacac 26

<210> 493

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 493

gtgggcagcg tcttgct 17

<210> 494

<211> 1231

<212> DNA

<213> Homo Sapien

<400> 494

cccacgcgtc cgcgcagtcg cgcagttctg cctccgcctg ccagtctcgc 50

ccgcgatccc ggcccggggc tgtggcgtcg actccgaccc aggcagccag 100

cagcccgcgc gggagccgga ccgccgccgg aggagctcgg acggcatgct 150

gagccccctc ctttgctgaa gcccagtgct ggagaagccc gggcaaacgc 200

aggctaagga gaccaaagcg gcgaagtcgc gagacagcgg acaagcagcg 250

gaggagaagg aggaggaggc gaaccagag aggggcagca aaagaagcgg 300

tggtggtggg cgtcgtggcc atggcgccgg ctatcgccag ctcgctcatc 350

cgtcagaaga ggcaagcccc cgagcgcgag aaatccaacg cctgcaagtg 400

tgtcagcagc cccagcaaag gcaagaccag ctgcgacaaa aacaagttaa 450

atgtcttttc ccgggtcaaa ctcttcggct ccaagaagag gcgcagaaga 500

agaccagagc ctcagcttaa gggatatagtt accaagctat acagccgaca 550

P2730P1sequencelisting.txt

aggctaccac ttgcagctgc aggcggatgg aaccattgat ggcaccaaag 600
atgaggacag cacttacact ctgtttaacc tcatccctgt gggctctgcga 650
gtggtggcta tccaaggagt tcaaaccaag ctgtacttgg caatgaacag 700
tgagggatac ttgtacacct cggaactttt cacacctgag tgcaaattca 750
aagaatcagt gtttgaaaat tattatgtga catattcatc aatgatatac 800
cgtcagcagc agtcaggccg aggggtggtat ctgggtctga acaaagaagg 850
agagatcatg aaaggcaacc atgtgaagaa gaacaagcct gcagctcatt 900
ttctgcctaa accactgaaa gtggccatgt acaaggagcc atcactgcac 950
gatctcacgg agttctcccg atctggaagc gggaccccaa ccaagagcag 1000
aagtgtctct ggcgtgctga acggaggcaa atccatgagc cacaatgaat 1050
caacgtagcc agtgagggca aaagaagggc tctgtaacag aaccttacct 1100
ccaggtgctg ttgaattctt ctagcagtcc ttcacccaaa agttcaaatt 1150
tgtcagtgc atttaccaaa caaacaggca gagttcacta ttctatctgc 1200
cattagacct tcttatcatc cataactaaag c 1231

<210> 495

<211> 245

<212> PRT

<213> Homo Sapien

<400> 495

Met	Ala	Ala	Ala	Ile	Ala	Ser	Ser	Leu	Ile	Arg	Gln	Lys	Arg	Gln
1				5					10					15
Ala	Arg	Glu	Arg	Glu	Lys	Ser	Asn	Ala	Cys	Lys	Cys	Val	Ser	Ser
				20					25					30
Pro	Ser	Lys	Gly	Lys	Thr	Ser	Cys	Asp	Lys	Asn	Lys	Leu	Asn	Val
				35					40					45
Phe	Ser	Arg	Val	Lys	Leu	Phe	Gly	Ser	Lys	Lys	Arg	Arg	Arg	Arg
				50					55					60
Arg	Pro	Glu	Pro	Gln	Leu	Lys	Gly	Ile	Val	Thr	Lys	Leu	Tyr	Ser
				65					70					75
Arg	Gln	Gly	Tyr	His	Leu	Gln	Leu	Gln	Ala	Asp	Gly	Thr	Ile	Asp
				80					85					90
Gly	Thr	Lys	Asp	Glu	Asp	Ser	Thr	Tyr	Thr	Leu	Phe	Asn	Leu	Ile
				95					100					105
Pro	Val	Gly	Leu	Arg	Val	Val	Ala	Ile	Gln	Gly	Val	Gln	Thr	Lys
				110					115					120
Leu	Tyr	Leu	Ala	Met	Asn	Ser	Glu	Gly	Tyr	Leu	Tyr	Thr	Ser	Glu
				125					130					135
Leu	Phe	Thr	Pro	Glu	Cys	Lys	Phe	Lys	Glu	Ser	Val	Phe	Glu	Asn
				140					145					150
Tyr	Tyr	Val	Thr	Tyr	Ser	Ser	Met	Ile	Tyr	Arg	Gln	Gln	Gln	Ser
				155					160					165

P2730P1sequencelisting.txt

Gly	Arg	Gly	Trp	Tyr	Leu	Gly	Leu	Asn	Lys	Glu	Gly	Glu	Ile	Met
				170					175					180
Lys	Gly	Asn	His	Val	Lys	Lys	Asn	Lys	Pro	Ala	Ala	His	Phe	Leu
				185					190					195
Pro	Lys	Pro	Leu	Lys	Val	Ala	Met	Tyr	Lys	Glu	Pro	Ser	Leu	His
				200					205					210
Asp	Leu	Thr	Glu	Phe	Ser	Arg	Ser	Gly	Ser	Gly	Thr	Pro	Thr	Lys
				215					220					225
Ser	Arg	Ser	Val	Ser	Gly	Val	Leu	Asn	Gly	Gly	Lys	Ser	Met	Ser
				230					235					240
His	Asn	Glu	Ser	Thr										
				245										

<210> 496
 <211> 1471
 <212> DNA
 <213> Homo Sapien

<400> 496
 ccaggatgga gctggggcct gtatagccat attattgttc tatgctacta 50
 gacatggggg ggacttggtg aaaaaggtat tatccagcca gagggctctg 100
 gagccctgtc ttactgaacc tgggcaacct ggatattctg agacatatatt 150
 tgggggggatt tcagtgaaaa aagtggggga tcccctccat ttagagtgtg 200
 gcaaaggaaa aaacaccaag gttgggttcc ttcctgacat tggcagtgcc 250
 ccagtagggg tgggatgagc gaatattccc aaagctaaag tcccacaccc 300
 tgtagattac aagagtggat ttggcaggag tgtgcccac aatacagtg 350
 aaaggtgcct gaagatatatt aaaccacgtc ttggaaattt agtgggtcct 400
 ggctttggga taggtgaagt gaggacagac actggagagg agggaaagg 450
 gacgttttca ataggaggca aaactcgagg gtgggatcca ctgaggagta 500
 cataggctgc tggatctggt ggagccagca ctgggcccac gggtggtaac 550
 tggctgctgt ggaggggggt acgtgagggg ggggtctggg gcttatcctc 600
 aggtcctgtg ggtggggcag cgagtcgggg cctgagcgtc aagagcatgc 650
 cctagtgagc gggctcctct gggggagccc agcgcgctcc gggcgctgc 700
 cggtttgggg gtgtctcctc ccggggcgct atggcggcgc tggccagtag 750
 cctgatccgg cagaagcggg aggtccgcga gcccggggg agccggccgg 800
 tgtcggcgca gcggcgctg tgtccccgcg gcaccaagtc cctttgccag 850
 aagcagctcc tcacctgtct gtccaagggt cgactgtgcg gggggcggcc 900
 cgcgcggccg gaccgcggcc cggagcctca gctcaaaggc atcgtcacca 950
 aactgttctg ccgccagggt ttctacctcc aggcgaatcc cgacggaagc 1000
 atccagggca ccccagagga taccagctcc ttcacccact tcaacctgat 1050
 ccctgtgggc ctccgtgtgg tcaccatcca gagcgccaag ctgggtcact 1100

P2730P1sequencelisting.txt

acatggccat gaatgctgag ggactgctct acagttcgcc gcatttcaca 1150
gctgagtgtc gctttaagga gtgtgtcttt gagaattact acgtcctgta 1200
cgcctctgct ctctaccgcc agcgtcgttc tggccgggccc tggtagctcg 1250
gcctggacaa ggagggccag gtcatgaagg gaaaccgagt taagaagacc 1300
aaggcagctg cccactttct gcccaagctc ctggaggtgg ccatgtacca 1350
ggagccttct ctccacagtg tccccgaggc ctccccctcc agtccccctg 1400
ccccctgaaa tgtagtcctt ggactggagg ttccctgcac tcccagtgag 1450
ccagccacca ccacaacctg t 1471

<210> 497
<211> 225
<212> PRT
<213> Homo Sapien

<400> 497
Met Ala Ala Leu Ala Ser Ser Leu Ile Arg Gln Lys Arg Glu Val
1 5 10 15
Arg Glu Pro Gly Gly Ser Arg Pro Val Ser Ala Gln Arg Arg Val
20 25 30
Cys Pro Arg Gly Thr Lys Ser Leu Cys Gln Lys Gln Leu Leu Ile
35 40 45
Leu Leu Ser Lys Val Arg Leu Cys Gly Gly Arg Pro Ala Arg Pro
50 55 60
Asp Arg Gly Pro Glu Pro Gln Leu Lys Gly Ile Val Thr Lys Leu
65 70 75
Phe Cys Arg Gln Gly Phe Tyr Leu Gln Ala Asn Pro Asp Gly Ser
80 85 90
Ile Gln Gly Thr Pro Glu Asp Thr Ser Ser Phe Thr His Phe Asn
95 100 105
Leu Ile Pro Val Gly Leu Arg Val Val Thr Ile Gln Ser Ala Lys
110 115 120
Leu Gly His Tyr Met Ala Met Asn Ala Glu Gly Leu Leu Tyr Ser
125 130 135
Ser Pro His Phe Thr Ala Glu Cys Arg Phe Lys Glu Cys Val Phe
140 145 150
Glu Asn Tyr Tyr Val Leu Tyr Ala Ser Ala Leu Tyr Arg Gln Arg
155 160 165
Arg Ser Gly Arg Ala Trp Tyr Leu Gly Leu Asp Lys Glu Gly Gln
170 175 180
Val Met Lys Gly Asn Arg Val Lys Lys Thr Lys Ala Ala Ala His
185 190 195
Phe Leu Pro Lys Leu Leu Glu Val Ala Met Tyr Gln Glu Pro Ser
200 205 210
Leu His Ser Val Pro Glu Ala Ser Pro Ser Ser Pro Pro Ala Pro
215 220 225

<210> 498

P2730P1sequencelisting.txt

<211> 744
<212> DNA
<213> Homo Sapien

<400> 498
atggccgcgg ccacgctag cggcttgatc cgccagaagc ggcaggcgcg 50
ggagcagcac tgggaccggc cgtctgccag caggaggcgg agcagcccca 100
gcaagaaccg cgggctctgc aacggcaacc tgggtggatat cttctccaaa 150
gtgcgcatct tcggcctcaa gaagcgcagg ttgcggcgcc aagatcccca 200
gctcaagggt atagtacca gggttatattg caggcaaggc tactacttgc 250
aaatgcaccc cgatggagct ctcatggaa ccaaggatga cagcactaat 300
tctacactct tcaacctcat accagtggga ctacgtgttg ttgccatcca 350
gggagtgaaa acagggttgt atatatccat gaatggagaa gggtacctct 400
acccatcaga actttttacc cctgaatgca agtttaaaga atctgttttt 450
gaaaattatt atgtaatcta ctcatccatg ttgtacagac aacaggaatc 500
tggtagagcc tggtttttgg gattaaataa ggaagggcaa gctatgaaag 550
ggaacagagt aaagaaaacc aaaccagcag ctcattttct acccaagcca 600
ttggaagtgt ccatgtaccg agaaccatct ttgcatgatg ttggggaaac 650
ggtcccgaag cctgggggtga cgccaagtaa aagcacaagt gcgtctgcaa 700
taatgaatgg aggcaaacca gtcaacaaga gtaagacaac atag 744

<210> 499
<211> 247
<212> PRT
<213> Homo Sapien

<400> 499
Met Ala Ala Ala Ile Ala Ser Gly Leu Ile Arg Gln Lys Arg Gln
1 5 10 15
Ala Arg Glu Gln His Trp Asp Arg Pro Ser Ala Ser Arg Arg Arg
20 25 30
Ser Ser Pro Ser Lys Asn Arg Gly Leu Cys Asn Gly Asn Leu Val
35 40 45
Asp Ile Phe Ser Lys Val Arg Ile Phe Gly Leu Lys Lys Arg Arg
50 55 60
Leu Arg Arg Gln Asp Pro Gln Leu Lys Gly Ile Val Thr Arg Leu
65 70 75
Tyr Cys Arg Gln Gly Tyr Tyr Leu Gln Met His Pro Asp Gly Ala
80 85 90
Leu Asp Gly Thr Lys Asp Asp Ser Thr Asn Ser Thr Leu Phe Asn
95 100 105
Leu Ile Pro Val Gly Leu Arg Val Val Ala Ile Gln Gly Val Lys
110 115 120
Thr Gly Leu Tyr Ile Ala Met Asn Gly Glu Gly Tyr Leu Tyr Pro
125 130 135

P2730P1sequencelisting.txt

Ser	Glu	Leu	Phe	Thr	Pro	Glu	Cys	Lys	Phe	Lys	Glu	Ser	Val	Phe
				140					145					150
Glu	Asn	Tyr	Tyr	Val	Ile	Tyr	Ser	Ser	Met	Leu	Tyr	Arg	Gln	Gln
				155					160					165
Glu	Ser	Gly	Arg	Ala	Trp	Phe	Leu	Gly	Leu	Asn	Lys	Glu	Gly	Gln
				170					175					180
Ala	Met	Lys	Gly	Asn	Arg	Val	Lys	Lys	Thr	Lys	Pro	Ala	Ala	His
				185					190					195
Phe	Leu	Pro	Lys	Pro	Leu	Glu	Val	Ala	Met	Tyr	Arg	Glu	Pro	Ser
				200					205					210
Leu	His	Asp	Val	Gly	Glu	Thr	Val	Pro	Lys	Pro	Gly	Val	Thr	Pro
				215					220					225
Ser	Lys	Ser	Thr	Ser	Ala	Ser	Ala	Ile	Met	Asn	Gly	Gly	Lys	Pro
				230					235					240
Val	Asn	Lys	Ser	Lys	Thr	Thr								
				245										

<210> 500
 <211> 2906
 <212> DNA
 <213> Homo Sapien

<400> 500
 ggggagagga attgaccatg taaaaggaga cttttttttt tgggtggtggt 50
 ggctgttggg tgccttgcaa aaatgaagga tgcaggacgc agctttctcc 100
 tggaaccgaa cgcaatggat aaactgattg tgcaagagag aaggaagaac 150
 gaagcttttt cttgtgagcc ctggatctta acacaaatgt gtatatgtgc 200
 acacagggag cattcaagaa tgaaataaac cagagttaga cccgcggggg 250
 ttggtgtggt ctgacataaa taaataatct taaagcagct gttcccctcc 300
 ccacccccaa aaaaaaggat gattggaaat gaagaaccga ggattcacia 350
 agaaaaaagt atgttcattt ttctctataa aggagaaagt gagccaagga 400
 gatatttttg gaatgaaaag tttggggctt ttttagtaaa gtaaagaact 450
 ggtgtggtgg tgttttcctt tctttttgaa tttcccacaa gaggagagga 500
 aattaataat acatctgcaa agaaatttca gagaagaaaa gttgaccgcg 550
 gcagattgag gcattgattg ggggagagaa accagcagag cacagttgga 600
 tttgtgccta tgttgactaa aattgacgga taattgcagt tggatttttc 650
 ttcatacaac tccttttttt taaattttta ttccttttgg tatcaagatc 700
 atgcgttttc tcttgttcct aaccacctgg atttccatct ggatgttgct 750
 gtgatcagtc tgaaatacaa ctgtttgaat tccagaagga ccaacaccag 800
 ataaattatg aatgttgaac aagatgacct tacatccaca gcagataatg 850
 ataggtccta ggtttaacag ggccctatct gacccctgc ttgtggtgct 900
 gctggctctt caacttcttg tgggtggctgg tctggtgctg gctcagacct 950

P2730P1sequencelisting.txt

```

gcccttctgt gtgctcctgc agcaaccagt tcagcaaggt gatttgtgtt 1000
cggaaaaaac tgcgtgaggt tccggatggc atctccacca acacacggct 1050
gctgaacctc catgagaacc aaatccagat catcaaagtg aacagcttca 1100
agcacttgag gcacttgga atcctacagt tgagtaggaa ccatatcaga 1150
accattgaaa ttggggcttt caatggctctg gcgaacctca acactctgga 1200
actctttgac aatcgtctta ctaccatccc gaatggagct tttgtatact 1250
tgtctaaact gaaggagctc tggttgcgaa acaaccccat tgaaagcatc 1300
ccttcttatg cttttaacag aattccttct ttgcgccgac tagacttagg 1350
ggaattgaaa agactttcat acatctcaga aggtgccttt gaaggctctgt 1400
ccaacttgag gtatttgaac cttgccatgt gcaaccttcg ggaaatccct 1450
aacctcacac cgctcataaa actagatgag ctggatcttt ctgggaatca 1500
tttatctgcc atcaggcctg gctctttcca gggtttgatg caccttcaaa 1550
aactgtggat gatacagtc cagattcaag tgattgaacg gaatgccttt 1600
gacaaccttc agtcactagt ggagatcaac ctggcacaca ataatctaac 1650
attactgcct catgacctct tcaactccctt gcatcatcta gagcggatac 1700
atttacatca caacccttgg aactgtaact gtgacatact gtggctcagc 1750
tggtggataa aagacatggc cccctcgaac acagcttggt gtgcccgggtg 1800
taacactcct cccaatctaa aggggaggta cattggagag ctcgaccaga 1850
attacttcac atgctatgct ccggtgattg tggagcccc tgcagacctc 1900
aatgtcactg aaggcatggc agctgagctg aaatgtcggg cctccacatc 1950
cctgacatct gtatcttga ttactccaaa tggaacagtc atgacacatg 2000
gggcgtacaa agtgccgata gctgtgctca gtgatggtac gttaaatttc 2050
acaaatgtaa ctgtgcaaga tacaggcatg tacacatgta tggtgagtaa 2100
ttccgttggg aatactactg cttcagccac cctgaatgtt actgcagcaa 2150
ccactactcc tttctcttac ttttcaaccg tcacagtaga gactatggaa 2200
ccgtctcagg atgaggcacg gaccacagat aacaatgtgg gtcccactcc 2250
agtggctcag tgggagacca ccaatgtgac cacctctctc acaccacaga 2300
gcacaaggtc gacagagaaa accttcacca tcccagtgac tgatataaac 2350
agtgggatcc caggaattga tgaggatcat aagactacca aaatcatcat 2400
tgggtgtttt gtggccatca cactcatggc tgcagtgatg ctggtcattt 2450
tctacaagat gaggaagcag caccatcggc aaaaccatca cgccccaaca 2500
aggactgttg aaattattaa tgtggatgat gagattacgg gagacacacc 2550
catggaaagc cacctgcca tgcctgctat cgagcatgag cacctaaatc 2600
actataactc atacaaatct cccttcaacc acacaacaac agttaacaca 2650

```

P2730P1sequencelisting.txt

ataaattcaa tacacagttc agtgcacgaa ccgttattga tccgaatgaa 2700
 ctctaaagac aatgtacaag agactcaaatt ctaaaacatt tacagagtta 2750
 caaaaaacaa acaatcaaaa aaaaagacag tttattaaaa atgacacaaa 2800
 tgactgggct aaatctactg tttcaaaaaa gtgtctttac aaaaaaacia 2850
 aaaagaaaag aaattttattt attaaaaaatt ctattgtgat ctaaagcaga 2900
 caaaaa 2906

<210> 501
 <211> 640
 <212> PRT
 <213> Homo Sapien

<400> 501
 Met Leu Asn Lys Met Thr Leu His Pro Gln Gln Ile Met Ile Gly
 1 5 10 15
 Pro Arg Phe Asn Arg Ala Leu Phe Asp Pro Leu Leu Val Val Leu
 20 25 30
 Leu Ala Leu Gln Leu Leu Val Val Ala Gly Leu Val Arg Ala Gln
 35 40 45
 Thr Cys Pro Ser Val Cys Ser Cys Ser Asn Gln Phe Ser Lys Val
 50 55 60
 Ile Cys Val Arg Lys Asn Leu Arg Glu Val Pro Asp Gly Ile Ser
 65 70 75
 Thr Asn Thr Arg Leu Leu Asn Leu His Glu Asn Gln Ile Gln Ile
 80 85 90
 Ile Lys Val Asn Ser Phe Lys His Leu Arg His Leu Glu Ile Leu
 95 100 105
 Gln Leu Ser Arg Asn His Ile Arg Thr Ile Glu Ile Gly Ala Phe
 110 115 120
 Asn Gly Leu Ala Asn Leu Asn Thr Leu Glu Leu Phe Asp Asn Arg
 125 130 135
 Leu Thr Thr Ile Pro Asn Gly Ala Phe Val Tyr Leu Ser Lys Leu
 140 145 150
 Lys Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser
 155 160 165
 Tyr Ala Phe Asn Arg Ile Pro Ser Leu Arg Arg Leu Asp Leu Gly
 170 175 180
 Glu Leu Lys Arg Leu Ser Tyr Ile Ser Glu Gly Ala Phe Glu Gly
 185 190 195
 Leu Ser Asn Leu Arg Tyr Leu Asn Leu Ala Met Cys Asn Leu Arg
 200 205 210
 Glu Ile Pro Asn Leu Thr Pro Leu Ile Lys Leu Asp Glu Leu Asp
 215 220 225
 Leu Ser Gly Asn His Leu Ser Ala Ile Arg Pro Gly Ser Phe Gln
 230 235 240
 Gly Leu Met His Leu Gln Lys Leu Trp Met Ile Gln Ser Gln Ile
 245 250 255

P2730P1sequencelisting.txt

Gln Val Ile Glu	Arg 260	Asn Ala Phe Asp	Asn 265	Leu Gln Ser Leu	Val 270
Glu Ile Asn Leu	Ala 275	His Asn Asn Leu	Thr 280	Leu Leu Pro His	Asp 285
Leu Phe Thr Pro	Leu 290	His His Leu Glu	Arg 295	Ile His Leu His	His 300
Asn Pro Trp Asn	Cys 305	Asn Cys Asp Ile	Leu 310	Trp Leu Ser Trp	Trp 315
Ile Lys Asp Met	Ala 320	Pro Ser Asn Thr	Ala 325	Cys Cys Ala Arg	Cys 330
Asn Thr Pro Pro	Asn 335	Leu Lys Gly Arg	Tyr 340	Ile Gly Glu Leu	Asp 345
Gln Asn Tyr Phe	Thr 350	Cys Tyr Ala Pro	Val 355	Ile Val Glu Pro	Pro 360
Ala Asp Leu Asn	Val 365	Thr Glu Gly Met	Ala 370	Ala Glu Leu Lys	Cys 375
Arg Ala Ser Thr	Ser 380	Leu Thr Ser Val	Ser 385	Trp Ile Thr Pro	Asn 390
Gly Thr Val Met	Thr 395	His Gly Ala Tyr	Lys 400	Val Arg Ile Ala	Val 405
Leu Ser Asp Gly	Thr 410	Leu Asn Phe Thr	Asn 415	Val Thr Val Gln	Asp 420
Thr Gly Met Tyr	Thr 425	Cys Met Val Ser	Asn 430	Ser Val Gly Asn	Thr 435
Thr Ala Ser Ala	Thr 440	Leu Asn Val Thr	Ala 445	Ala Thr Thr Thr	Pro 450
Phe Ser Tyr Phe	Ser 455	Thr Val Thr Val	Glu 460	Thr Met Glu Pro	Ser 465
Gln Asp Glu Ala	Arg 470	Thr Thr Asp Asn	Asn 475	Val Gly Pro Thr	Pro 480
Val Val Asp Trp	Glu 485	Thr Thr Asn Val	Thr 490	Thr Ser Leu Thr	Pro 495
Gln Ser Thr Arg	Ser 500	Thr Glu Lys Thr	Phe 505	Thr Ile Pro Val	Thr 510
Asp Ile Asn Ser	Gly 515	Ile Pro Gly Ile	Asp 520	Glu Val Met Lys	Thr 525
Thr Lys Ile Ile	Ile 530	Gly Cys Phe Val	Ala 535	Ile Thr Leu Met	Ala 540
Ala Val Met Leu	Val 545	Ile Phe Tyr Lys	Met 550	Arg Lys Gln His	His 555
Arg Gln Asn His	His 560	Ala Pro Thr Arg	Thr 565	Val Glu Ile Ile	Asn 570
Val Asp Asp Glu	Ile 575	Thr Gly Asp Thr	Pro 580	Met Glu Ser His	Leu 585
Pro Met Pro Ala	Ile Glu His Glu His	Leu Asn His Tyr Asn	Ser		

P2730P1sequencelisting.txt

590

595

600

Tyr Lys Ser Pro Phe Asn His Thr Thr Thr Val Asn Thr Ile Asn
605 610 615
Ser Ile His Ser Ser Val His Glu Pro Leu Leu Ile Arg Met Asn
620 625 630
Ser Lys Asp Asn Val Gln Glu Thr Gln Ile
635 640

<210> 502

<211> 2458

<212> DNA

<213> Homo Sapien

<400> 502

gcgccgggag cccatctgcc cccaggggca cggggcgcg ggcgggtcc 50
cgcccgac atggtcag ccacctcg cgacccga ggcggcg 100
ccagctcgc cgaggtccgt cggaggcg cggccgccc ggagccaagc 150
agcaactgag cggggaagcg cccgcgtccg gggatcgga tgtccctct 200
ccttctctc ttgctagttt cctactatgt tggaccttg gggactcaca 250
ctgagatcaa gagagtggca gaggaaaagg tcactttgcc ctgccaccat 300
caactggggc ttccagaaaa agacactctg gatattgaat ggctgctcac 350
cgataatgaa gggaaacaaa aagtgggtgat cacttactcc agtcgtcatg 400
tctacaataa cttgactgag gaacagaagg gccgagtggc ctttgcttcc 450
aatttcctgg caggagatgc ctccttgca attgaacctc tgaagcccag 500
tgatgagggc cggtagacct gtaaggtaa gaattcagg cgctacgtgt 550
ggagccatgt catcttaaaa gtcttagtga gaccatcaa gccaagtgt 600
gagttggaag gagagctgac agaaggaagt gacctgactt tgcagtgtga 650
gtcatcctct ggcacagagc ccattgtgta ttactggcag cgaatccgag 700
agaaagaggg agaggatgaa cgtctgcctc ccaaactag gattgactac 750
aaccaccctg gacgagttct gctgcagaat cttaccatgt cctactctgg 800
actgtaccag tgcacagcag gcaacgaagc tgggaaggaa agctgtgtgg 850
tgcgagtaac tgtacagtat gtacaaagca tcggcatggt tgcaggagca 900
gtgacaggca tagtggtcgg agccctgctg attttcctct tgggtgtggct 950
gctaataccga aggaaagaca aagaaagata tgaggaagaa gagagaccta 1000
atgaaattcg agaagatgct gaagctcaa aagcccgtct tgtgaaaccc 1050
agctcctctt cctcaggctc tcggagctca cgctctggtt cttcctccac 1100
tcgctccaca gcaaatagtg cctcacgcag ccagcggaca ctgtcaactg 1150
acgcagcacc ccagccaggg ctggccaccc aggcatacag cctagtgggg 1200
ccagaggtga gaggttctga accaaagaaa gtccaccatg ctaatctgac 1250
caaagcagaa accacaccca gcatgatccc cagccagagc agagccttcc 1300

P2730P1sequencelisting.txt

aaacggtctg aattacaatg gacttgactc ccacgctttc ctaggagtca 1350
 ggggtctttg actcttctcg tcattggagc tcaagtcacc agccacacaa 1400
 ccagatgaga ggtcatctaa gtagcagtga gcattgcacg gaacagattc 1450
 agatgagcat tttccttata caataccaaa caagcaaaag gatgtaagct 1500
 gattcatctg taaaaaggca tcttattgtg ccttttagacc agagtaaggg 1550
 aaagcaggag tccaaatcta tttgttgacc aggacctgtg gtgagaaggt 1600
 tggggaaagg tgagggtgaat atacctaaaa cttttaatgt gggatatttt 1650
 gtatcagtg c tttgattcac aattttcaag aggaaatggg atgctgtttg 1700
 taaattttct atgcatttct gcaaacttat tggattatta gttattcaga 1750
 cagtcaagca gaaccacag ccttattaca cctgtctaca ccatgtactg 1800
 agctaaccac ttctaagaaa ctccaaaaaa ggaaacatgt gtcttctatt 1850
 ctgacttaac ttcatttgtc ataaggtttg gatattaatt tcaaggggag 1900
 ttgaaatagt gggagatgga gaagagtga tgagtttctc ccactctata 1950
 ctaatctcac tatttgtatt gagcccaaaa taactatgaa aggagacaaa 2000
 aatttgtgac aaaggattgt gaagagcttt ccacttcat gatgttatga 2050
 ggattgttga caaacattag aaatatataa tggagcaatt gtggatttcc 2100
 cctcaaata gatgcctcta aggactttcc tgctagatat ttctggaagg 2150
 agaaaataca acatgtcatt tatcaacgtc cttagaaaga attcttctag 2200
 agaaaaagg atctaggaat gctgaaagat tacccaacat accattatag 2250
 tctcttcttt ctgagaaaat gtgaaaccag aattgcaaga ctgggtggac 2300
 tagaaaggga gattagatca gttttctctt aatatgtcaa ggaaggtagc 2350
 cgggcatggt gccaggcacc tgtaggaaaa tccagcaggt ggaggttgca 2400
 gtgagccgag attatgccat tgcactccag cctgggtgac agagcgggac 2450
 tccgtctc 2458

<210> 503
 <211> 373
 <212> PRT
 <213> Homo Sapien

<400> 503
 Met Ser Leu Leu Leu Leu Leu Leu Val Ser Tyr Tyr Val Gly
 1 5 10 15
 Thr Leu Gly Thr His Thr Glu Ile Lys Arg Val Ala Glu Glu Lys
 20 25 30
 Val Thr Leu Pro Cys His His Gln Leu Gly Leu Pro Glu Lys Asp
 35 40 45
 Thr Leu Asp Ile Glu Trp Leu Leu Thr Asp Asn Glu Gly Asn Gln
 50 55 60
 Lys Val Val Ile Thr Tyr Ser Ser Arg His Val Tyr Asn Asn Leu
 Page 364

P2730P1sequencelisting.txt

65	70	75
Thr Glu Glu Gln Lys Gly Arg Val Ala Phe Ala Ser Asn Phe Leu	80	90
Ala Gly Asp Ala Ser Leu Gln Ile Glu Pro Leu Lys Pro Ser Asp	95	105
Glu Gly Arg Tyr Thr Cys Lys Val Lys Asn Ser Gly Arg Tyr Val	110	120
Trp Ser His Val Ile Leu Lys Val Leu Val Arg Pro Ser Lys Pro	125	135
Lys Cys Glu Leu Glu Gly Glu Leu Thr Glu Gly Ser Asp Leu Thr	140	150
Leu Gln Cys Glu Ser Ser Ser Gly Thr Glu Pro Ile Val Tyr Tyr	155	165
Trp Gln Arg Ile Arg Glu Lys Glu Gly Glu Asp Glu Arg Leu Pro	170	180
Pro Lys Ser Arg Ile Asp Tyr Asn His Pro Gly Arg Val Leu Leu	185	195
Gln Asn Leu Thr Met Ser Tyr Ser Gly Leu Tyr Gln Cys Thr Ala	200	210
Gly Asn Glu Ala Gly Lys Glu Ser Cys Val Val Arg Val Thr Val	215	225
Gln Tyr Val Gln Ser Ile Gly Met Val Ala Gly Ala Val Thr Gly	230	240
Ile Val Ala Gly Ala Leu Leu Ile Phe Leu Leu Val Trp Leu Leu	245	255
Ile Arg Arg Lys Asp Lys Glu Arg Tyr Glu Glu Glu Glu Arg Pro	260	270
Asn Glu Ile Arg Glu Asp Ala Glu Ala Pro Lys Ala Arg Leu Val	275	285
Lys Pro Ser Ser Ser Ser Ser Gly Ser Arg Ser Ser Arg Ser Gly	290	300
Ser Ser Ser Thr Arg Ser Thr Ala Asn Ser Ala Ser Arg Ser Gln	305	315
Arg Thr Leu Ser Thr Asp Ala Ala Pro Gln Pro Gly Leu Ala Thr	320	330
Gln Ala Tyr Ser Leu Val Gly Pro Glu Val Arg Gly Ser Glu Pro	335	345
Lys Lys Val His His Ala Asn Leu Thr Lys Ala Glu Thr Thr Pro	350	360
Ser Met Ile Pro Ser Gln Ser Arg Ala Phe Gln Thr Val	365	370

<210> 504
 <211> 3060
 <212> DNA
 <213> Homo Sapien

<400> 504

P2730P1sequencelisting.txt

cgcgagggcgc ggggagcctg ggaccaggag cgagagccgc ctacctgcag 50
 ccgcccggcca cggcacggga gccaccatgg cgctcctgct gtgcttcgtg 100
 ctctgtgctg gagtagtgga tttcgccaga agtttgagta tcactactcc 150
 tgaagagatg attgaaaaag ccaaagggga aactgcctat ctgccatgca 200
 aatttacgct tagtccccga gaccagggac cgctggacat cgagtggctg 250
 atatcaccag ctgataatca gaagggtggat caagtgatta ttttatattc 300
 tggagacaaa atttatgatg actactatcc agatctgaaa ggccgagtac 350
 attttacgag taatgatctc aaatctggtg atgcatcaat aaatgtaacg 400
 aatttacaac tgtcagatat tggcacatat cagtgcaaag tgaaaaaagc 450
 tcctggtggt gcaataaaga agattcatct ggtagttctt gttaagcctt 500
 caggtgagag atgttacgtt gatggatctg aagaaattgg aagtgacttt 550
 aagataaaat gtgaacacaa agaaggttca cttccattac agtatgagtg 600
 gcaaaaattg tctgactcac agaaaatgcc cacttcatgg ttagcagaaa 650
 tgacttcacg tggtatatct gtaaaaaatg cctcttctga gtactctggg 700
 acatacagct gtacagtcag aaacagagtg ggctctgac agtgccctgtt 750
 gcgtctaaac gttgtccctc cttcaaataa agctggacta attgcaggag 800
 ccattatagg aactttgctt gctctagcgc tcattggtct tatcatcttt 850
 tgctgtcgta aaaagcgag agaagaaaaa tatgaaaagg aagttcatca 900
 cgatatcagg gaagatgtgc cacctccaaa gagccgtacg tccactgcca 950
 gaagctacat cggcagtaat cattcatccc tgggggtccat gtctccttcc 1000
 aacatggaag gatattccaa gactcagtat aaccaagtac caagtgaaga 1050
 ctttgaacgc actcctcaga gtccgactct cccacctgct aagttcaagt 1100
 acccttaca gactgatgga attacagttg tataaatatg gactactgaa 1150
 gaatctgaag tattgtatta ttgacttta ttttaggcct ctagtaaaga 1200
 cttaaagtgt ttttaaaaaa agcacaaggc acagagatta gagcagctgt 1250
 aagaacacat ctactttatg caatggcatt agacatgtaa gtcagatgtc 1300
 atgtcaaaat tagtacgagc caaattcttt gttaaaaaac cctatgtata 1350
 gtgacactga tagttaaag atgttttatt atattttcaa taactaccac 1400
 taacaaattt ttaacttttc atatgcatat tctgatatgt ggtcttttag 1450
 gaaaagtatg gttaatagtt gatttttcaa aggaaatttt aaaattctta 1500
 cgttctgttt aatgtttttg ctatttagtt aaatacattg aagggaata 1550
 cccgttcttt tcccctttta tgcacacaac agaaacacgc gttgtcatgc 1600
 ctcaaactat tttttatttg caactacatg atttcacaca attctcttaa 1650
 acaacgacat aaaatagatt tccttgata taaataactt acatacgctc 1700

P2730P1sequencelisting.txt

cataaagtaa attctcaaag gtgctagaac aaatcgtcca cttctacagt 1750
gttctcgtat ccaacagagt tgatgcacaa tatataaata ctcaagtcca 1800
atattaaaaa cttaggcact tgactaactt taataaaatt tctcaaacta 1850
tatcaatatc taaagtgcac atattttttta agaaagatta ttctcaataa 1900
cttctataaa aataagtttg atggtttggc ccatctaact tcactactat 1950
tagtaagaac ttttaacttt taatgtgtag taaggtttat tctacctttt 2000
tctcaacatg acaccaacac aatcaaaaac gaagttagtg aggtgctaac 2050
atgtgaggat taatccagtg attccgggtca caatgcattc caggaggagg 2100
taccatgtc actggaattg ggcgatatgg tttatttttt cttccctgat 2150
ttggataacc aaatggaaca ggaggaggat agtgattctg atggccattc 2200
cctcgataca ttcctggctt ttttctgggc aaagggtgcc acattggaag 2250
aggtggaat ataagttctg aaatctgtag ggaagagaac acattaagtt 2300
aattcaaagg aaaaaatcat catctatgtt ccagatttct cattaaagac 2350
aaagttacc acaacactga gatcacatct aagtgacact cctattgtca 2400
ggtctaaata cattaaaaac ctcatgtgta ataggcgtat aatgtataac 2450
aggtgaccaa tgttttctga atgcataaag aaatgaataa actcaaacac 2500
agtacttcct aaacaacttc aaccaaaaaa gaccaaaca tggaacgaat 2550
ggaagcttgt aaggacatgc ttgttttagt ccagtgggtt ccacagctgg 2600
ctaagccagg agtcacttgg aggcctttta atacaaaaca ttggagctgg 2650
aggccattat ccttagcaaa ctaatgcaga aacagaaaat caactaccgc 2700
atgttctcac ttataagtgg gaggtaatga taagaactta tgaacacaaa 2750
gaaggaaaca atagacattg gagtctattt gagaggggag ggtgggagaa 2800
ggaaaaggag cagaaaagat aactattgag tactgccttc acacctgggt 2850
gatgaaataa tatgtacaac aaatccctgt gacacatgtt tacctatgga 2900
acaaaccttc atgtgtatcc ctaaacctaa aataaaagtt aaaaaaaaaa 2950
aaaraaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3000
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3050
aaaaaaaaaa 3060

<210> 505
<211> 352
<212> PRT
<213> Homo Sapien

<400> 505
Met Ala Leu Leu Leu Cys Phe Val Leu Leu Cys Gly Val Val Asp
1 5 10 15
Phe Ala Arg Ser Leu Ser Ile Thr Thr Pro Glu Glu Met Ile Glu
20 25 30

P2730P1sequencelisting.txt

```

Lys Ala Lys Gly Glu Thr Ala Tyr Leu Pro Cys Lys Phe Thr Leu
35 40 45
Ser Pro Glu Asp Gln Gly Pro Leu Asp Ile Glu Trp Leu Ile Ser
50 55 60
Pro Ala Asp Asn Gln Lys Val Asp Gln Val Ile Ile Leu Tyr Ser
65 70 75
Gly Asp Lys Ile Tyr Asp Asp Tyr Tyr Pro Asp Leu Lys Gly Arg
80 85 90
Val His Phe Thr Ser Asn Asp Leu Lys Ser Gly Asp Ala Ser Ile
95 100 105
Asn Val Thr Asn Leu Gln Leu Ser Asp Ile Gly Thr Tyr Gln Cys
110 115 120
Lys Val Lys Lys Ala Pro Gly Val Ala Asn Lys Lys Ile His Leu
125 130 135
Val Val Leu Val Lys Pro Ser Gly Ala Arg Cys Tyr Val Asp Gly
140 145 150
Ser Glu Glu Ile Gly Ser Asp Phe Lys Ile Lys Cys Glu Pro Lys
155 160 165
Glu Gly Ser Leu Pro Leu Gln Tyr Glu Trp Gln Lys Leu Ser Asp
170 175 180
Ser Gln Lys Met Pro Thr Ser Trp Leu Ala Glu Met Thr Ser Ser
185 190 195
Val Ile Ser Val Lys Asn Ala Ser Ser Glu Tyr Ser Gly Thr Tyr
200 205 210
Ser Cys Thr Val Arg Asn Arg Val Gly Ser Asp Gln Cys Leu Leu
215 220 225
Arg Leu Asn Val Val Pro Pro Ser Asn Lys Ala Gly Leu Ile Ala
230 235 240
Gly Ala Ile Ile Gly Thr Leu Leu Ala Leu Ala Leu Ile Gly Leu
245 250 255
Ile Ile Phe Cys Cys Arg Lys Lys Arg Arg Glu Glu Lys Tyr Glu
260 265 270
Lys Glu Val His His Asp Ile Arg Glu Asp Val Pro Pro Pro Lys
275 280 285
Ser Arg Thr Ser Thr Ala Arg Ser Tyr Ile Gly Ser Asn His Ser
290 295 300
Ser Leu Gly Ser Met Ser Pro Ser Asn Met Glu Gly Tyr Ser Lys
305 310 315
Thr Gln Tyr Asn Gln Val Pro Ser Glu Asp Phe Glu Arg Thr Pro
320 325 330
Gln Ser Pro Thr Leu Pro Pro Ala Lys Phe Lys Tyr Pro Tyr Lys
335 340 345
Thr Asp Gly Ile Thr Val Val
350

```

<210> 506

<211> 1705

P2730P1sequencelisting.txt

<212> DNA

<213> Homo Sapien

<400> 506

tgaaatgact tccacggctg ggacgggaac cttccacca cagctatgcc 50
tctgattggt gaatggtgaa ggtgcctgtc taacttttct gtaaaaagaa 100
ccagctgcct ccaggcagcc agccctcaag catcacttac aggaccagag 150
ggacaagaca tgaactgtgat gaggagctgc tttcgccaat ttaacaccaa 200
gaagaattga ggctgcttgg gaggaaggcc aggaggaaca cgagactgag 250
agatgaattt tcaacagagg ctgcaaagcc tgtggacttt agccagaccc 300
ttctgcccctc ctttgctggc gacagcctct caaatgcaga tggttgtgct 350
cccttgccctg ggttttaccc tgcttctctg gagccaggta tcaggggccc 400
agggccaaga attccacttt gggccctgcc aagtgaaggg ggttgttccc 450
cagaaactgt ggaagccctt ctgggctgtg aaagacacta tgcaagctca 500
ggataacatc acgagtgtcc ggctgctgca gcaggagggt ctgcagaacg 550
tctcggatgc tgagagctgt taccttgtcc acaccctgct ggagttctac 600
ttgaaaactg ttttcaaaaa ccaccacaat agaacagttg aagtcaggac 650
tctgaagtca ttcttactc tggccaacaa ctttgttctc atcgtgtcac 700
aactgcaacc cagtcaagaa aatgagatgt tttccatcag agacagtgca 750
cacaggcggt ttctgctatt ccggagagca ttcaaacagt tggacgtaga 800
agcagctctg accaaagccc ttggggaagt ggacattctt ctgacctgga 850
tgcagaaatt ctacaagctc tgaatgtcta gaccaggacc tccctcccc 900
tggcactggt ttgttccctg tgtcatttca aacagtctcc cttcctatgc 950
tgttcactgg acacttcacg cccttgGCCA tgggtcccat tcttgGCCA 1000
ggattattgt caaagaagtc attctttaag cagcgccagt gacagtcagg 1050
gaagggtgcct ctggatgctg tgaagagtct acagagaaga ttcttgtatt 1100
tattacaact ctatttaatt aatgtcagta tttcaactga agttctattt 1150
atttgtgaga ctgtaagtta catgaaggca gcagaatatt gtgccccatg 1200
cttctttacc cctcacatc cttgccacag tgtggggcag tggatgggtg 1250
cttagtaagt acttaataaa ctgtggtgct ttttttgGCC tgtctttgga 1300
ttgttaaaaa acagagaggg atgcttggat gtaaaaactga acttcagagc 1350
atgaaaatca cactgtcttc tgatatctgc agggacagag cattgggggtg 1400
ggggtaagggt gcatctgttt gaaaagtaaa cgataaaatg tggattaaag 1450
tgcccagcac aaagcagatc ctcaataaac atttcatttc ccaccacac 1500
tcgccagctc accccatcat ccctttccct tggtgccctc cttttttttt 1550
taccctagtc attcttccct aatcttcac ttgagtgtca agctgacctt 1600

P2730P1sequencelisting.txt

gctgatggtg acattgcacc tggatgtact atccaatctg tgatgacatt 1650
ccctgctaataaaaagacaacataactccaaaaaa 1700
aaaaa 1705

<210> 507
<211> 206
<212> PRT
<213> Homo Sapien

<400> 507
Met Asn Phe Gln Gln Arg Leu Gln Ser Leu Trp Thr Leu Ala Arg
1 5 10 15
Pro Phe Cys Pro Pro Leu Leu Ala Thr Ala Ser Gln Met Gln Met
20 25 30
Val Val Leu Pro Cys Leu Gly Phe Thr Leu Leu Leu Trp Ser Gln
35 40 45
Val Ser Gly Ala Gln Gly Gln Glu Phe His Phe Gly Pro Cys Gln
50 55 60
Val Lys Gly Val Val Pro Gln Lys Leu Trp Glu Ala Phe Trp Ala
65 70 75
Val Lys Asp Thr Met Gln Ala Gln Asp Asn Ile Thr Ser Ala Arg
80 85 90
Leu Leu Gln Gln Glu Val Leu Gln Asn Val Ser Asp Ala Glu Ser
95 100 105
Cys Tyr Leu Val His Thr Leu Leu Glu Phe Tyr Leu Lys Thr Val
110 115 120
Phe Lys Asn His His Asn Arg Thr Val Glu Val Arg Thr Leu Lys
125 130 135
Ser Phe Ser Thr Leu Ala Asn Asn Phe Val Leu Ile Val Ser Gln
140 145 150
Leu Gln Pro Ser Gln Glu Asn Glu Met Phe Ser Ile Arg Asp Ser
155 160 165
Ala His Arg Arg Phe Leu Leu Phe Arg Arg Ala Phe Lys Gln Leu
170 175 180
Asp Val Glu Ala Ala Leu Thr Lys Ala Leu Gly Glu Val Asp Ile
185 190 195
Leu Leu Thr Trp Met Gln Lys Phe Tyr Lys Leu
200 205

<210> 508
<211> 924
<212> DNA
<213> Homo Sapien

<400> 508
aaggagcagc ccgcaagcac caagtgagag gcatgaagtt acagtgtgtt 50
tccctttggc tcctgggtac aatactgata ttgtgctcag tagacaacca 100
cgggtctcagg agatgtctga tttccacaga catgcaccat atagaagaga 150
gtttccaaga aatcaaaaga gccatccaag ctaaggacac cttcccaaat 200

P2730P1sequencelisting.txt

gtcactatcc tgtccacatt ggagactctg cagatcatta agcccttaga 250
 tgtgtgctgc gtgaccaaga acctcctggc gttctacgtg gacaggggtgt 300
 tcaaggatca tcaggagcca aacccccaaaa tcttgagaaa aatcagcagc 350
 attgccaaact ctttcctcta catgcagaaa actctgcggc aatgtcagga 400
 acagaggcag tgtcactgca ggcaggaagc caccaatgcc accagagtca 450
 tccatgacaa ctatgatcag ctggagggtcc acgctgctgc cattaaatcc 500
 ctgggagagc tcgacgtctt tctagcctgg attaataaga atcatgaagt 550
 aatgtttctca gcttgatgac aaggaacctg tatagtgatc cagggatgaa 600
 caccctctgt gcggtttact gtgggagaca gccaccttg aaggggaagg 650
 agatggggaa ggcccccttg agctgaaaagt cccactggct ggcctcaggc 700
 tgtcttattc cgcttgaaaa taggcaaaaa gtctactgtg gtatttgtaa 750
 taaactctat ctgctgaaag ggcctgcagg ccatcctggg agtaaagggc 800
 tgccttccca tctaatttat tgtaaagtca tatagtccat gtctgtgatg 850
 tgagccaagt gatatcctgt agtacacatt gtactgagtg gtttttctga 900
 ataaattcca tattttacct atga 924

<210> 509
 <211> 177
 <212> PRT
 <213> Homo Sapien

<400> 509
 Met Lys Leu Gln Cys Val Ser Leu Trp Leu Leu Gly Thr Ile Leu
 1 5 10 15
 Ile Leu Cys Ser Val Asp Asn His Gly Leu Arg Arg Cys Leu Ile
 20 25 30
 Ser Thr Asp Met His His Ile Glu Glu Ser Phe Gln Glu Ile Lys
 35 40 45
 Arg Ala Ile Gln Ala Lys Asp Thr Phe Pro Asn Val Thr Ile Leu
 50 55 60
 Ser Thr Leu Glu Thr Leu Gln Ile Ile Lys Pro Leu Asp Val Cys
 65 70 75
 Cys Val Thr Lys Asn Leu Leu Ala Phe Tyr Val Asp Arg Val Phe
 80 85 90
 Lys Asp His Gln Glu Pro Asn Pro Lys Ile Leu Arg Lys Ile Ser
 95 100 105
 Ser Ile Ala Asn Ser Phe Leu Tyr Met Gln Lys Thr Leu Arg Gln
 110 115 120
 Cys Gln Glu Gln Arg Gln Cys His Cys Arg Gln Glu Ala Thr Asn
 125 130 135
 Ala Thr Arg Val Ile His Asp Asn Tyr Asp Gln Leu Glu Val His
 140 145 150
 Ala Ala Ala Ile Lys Ser Leu Gly Glu Leu Asp Val Phe Leu Ala
 155 160 165

P2730P1sequencelisting.txt

Trp Ile Asn Lys Asn His Glu Val Met Phe Ser Ala
170 175

<210> 510
<211> 996
<212> DNA
<213> Homo Sapien

<400> 510
cccgtagccaa gaggtagcgt agtaccgcct atagagtcta taggcccact 50
tggcttcggt agaacgcggc tacaattaat acataacctt atgtatcata 100
cacatacgat ttaggtgaca ctatagaata acatccactt tgcctttctc 150
tccacaggtg tccactccca ggtccaactg cacctcgggt ctatcgataa 200
tctcagcacc agccactcag agcagggcac gatgttgggg gcccgccctca 250
ggctctgggt ctgtgccttg tgcagcgtct gcagcatgag cgtcctcaga 300
gcctatccca atgcctcccc actgctcggc tccagctggg gtggcctgat 350
ccacctgtac acagccacag ccaggaacag ctaccacctg cagatccaca 400
agaatggcca tgtggatggc gcaccccatc agaccatcta cagtgccctg 450
atgatcagat cagaggatgc tggctttgtg gtgattacag gtgtgatgag 500
cagaagatac ctctgcatgg atttcagagg caacattttt ggatcacact 550
atttcgaccc ggagaactgc aggttccaac accagacgct ggaaaacggg 600
tacgacgtct accactctcc tcagtatcac ttcctgggtca gtctgggccc 650
ggcgaagaga gccttcctgc caggcatgaa cccacccccg tactcccagt 700
tcctgtcccc gaggaacgag atccccctaa ttcacttcaa cccccccata 750
ccacggcggc acacccggag cgccgaggac gactcggagc gggacccccct 800
gaacgtgctg aagccccggg cccggatgac cccggccccg gcctcctggt 850
cacaggagct cccgagcgcc gaggacaaca gcccgatggc cagtgaccca 900
ttaggggtgg tcaggggagg tcgagtgaac acgcacgctg ggggaacggg 950
cccggaaggc tgccgcccct tcgccaagtt catctagggt cgctgg 996

<210> 511
<211> 251
<212> PRT
<213> Homo Sapien

<400> 511
Met Leu Gly Ala Arg Leu Arg Leu Trp Val Cys Ala Leu Cys Ser
1 5 10 15
Val Cys Ser Met Ser Val Leu Arg Ala Tyr Pro Asn Ala Ser Pro
20 25 30
Leu Leu Gly Ser Ser Trp Gly Gly Leu Ile His Leu Tyr Thr Ala
35 40 45
Thr Ala Arg Asn Ser Tyr His Leu Gln Ile His Lys Asn Gly His
50 55 60

P2730P1sequencelisting.txt

Val	Asp	Gly	Ala	Pro	His	Gln	Thr	Ile	Tyr	Ser	Ala	Leu	Met	Ile
				65					70					75
Arg	Ser	Glu	Asp	Ala	Gly	Phe	Val	Val	Ile	Thr	Gly	Val	Met	Ser
				80					85					90
Arg	Arg	Tyr	Leu	Cys	Met	Asp	Phe	Arg	Gly	Asn	Ile	Phe	Gly	Ser
				95					100					105
His	Tyr	Phe	Asp	Pro	Glu	Asn	Cys	Arg	Phe	Gln	His	Gln	Thr	Leu
				110					115					120
Glu	Asn	Gly	Tyr	Asp	Val	Tyr	His	Ser	Pro	Gln	Tyr	His	Phe	Leu
				125					130					135
Val	Ser	Leu	Gly	Arg	Ala	Lys	Arg	Ala	Phe	Leu	Pro	Gly	Met	Asn
				140					145					150
Pro	Pro	Pro	Tyr	Ser	Gln	Phe	Leu	Ser	Arg	Arg	Asn	Glu	Ile	Pro
				155					160					165
Leu	Ile	His	Phe	Asn	Thr	Pro	Ile	Pro	Arg	Arg	His	Thr	Arg	Ser
				170					175					180
Ala	Glu	Asp	Asp	Ser	Glu	Arg	Asp	Pro	Leu	Asn	Val	Leu	Lys	Pro
				185					190					195
Arg	Ala	Arg	Met	Thr	Pro	Ala	Pro	Ala	Ser	Cys	Ser	Gln	Glu	Leu
				200					205					210
Pro	Ser	Ala	Glu	Asp	Asn	Ser	Pro	Met	Ala	Ser	Asp	Pro	Leu	Gly
				215					220					225
Val	Val	Arg	Gly	Gly	Arg	Val	Asn	Thr	His	Ala	Gly	Gly	Thr	Gly
				230					235					240
Pro	Glu	Gly	Cys	Arg	Pro	Phe	Ala	Lys	Phe	Ile				
				245					250					

<210> 512
 <211> 2015
 <212> DNA
 <213> Homo Sapien

<400> 512
 ggaaaaggta cccgcgagag acagccagca gttctgtgga gcagcgggtgg 50
 ccggctagga tgggctgtct ctggggctctg gctctgcccc ttttcttctt 100
 ctgctgggag gttgggggtct ctgggagctc tgcaggcccc agcaccgcga 150
 gagcagacac tgcgatgaca acggacgaca cagaagtgcc cgctatgact 200
 ctagcaccgg gccacgccgc tctggaaact caaacgctga gcgctgagac 250
 ctcttctagg gcctcaacct cagccggccc cattccagaa gcagagacca 300
 ggggagccaa gagaatttcc cctgcaagag agaccaggag tttcacaaaa 350
 acatctccca acttcatggt gctgatcgcc acctccgtgg agacatcagc 400
 cgccagtggc agccccgagg gagctggaat gaccacagtt cagaccatca 450
 caggcagtga tcccaggaa gccatctttg acaccctttg caccgatgac 500
 agctctgaag agggaaagac actcacaatg gacatattga cattggctca 550
 cacctccaca gaagctaagg gcctgtcctc agagagcagt gcctcttccg 600

P2730P1sequencelisting.txt

acggccccca tccagtcac accccgtcac gggcctcaga gagcagcgcc 650
tcttccgacg gccccatcc agtcacacc ccgtcacggg cctcagagag 700
cagcgcctct tccgacggcc cccatccagt catcaccccg tcatggtccc 750
cgggatctga tgtcactctc ctcgctgaag ccctggtgac tgtcacaac 800
atcgagggtta ttaattgcag catcacagaa atagaaacaa caacttccag 850
catccctggg gcctcagaca tagatctcat cccacaggaa ggggtgaagg 900
cctcgtccac ctccgatcca ccagctctgc ctgactccac tgaagcaaaa 950
ccacacatca ctgagggtcac agcctctgcc gagaccctgt ccacagccgg 1000
caccacagag tcagctgcac ctcatgccac ggttgggacc cactcccca 1050
ctaacagcgc cacagaaaga gaagtgcag caccggggc cagaccctc 1100
agtggagctc tggtcacagt tagcaggaat cccctggaag aaacctcagc 1150
cctctctgtt gagacaccaa gttacgtcaa agtctcagga gcagctccgg 1200
tctccataga ggctgggtca gcagtgggca aaacaacttc ctttgcctggg 1250
agctctgctt cctcctacag cccctcggaa gccgccctca agaacttcac 1300
cccttcagag acaccgacca tggacatcgc aaccaagggg cccttcccca 1350
ccagcaggga ccctcttcct tctgtccctc cgactacaac caacagcagc 1400
cgagggacga acagcacctt agccaagatc acaacctcag cgaagaccac 1450
gatgaagccc caacagccac gccacgact gcccgacga ggccgaccac 1500
agacgtgagt gcaggtgaaa atggagggtt cctcctcctg cggctgagt 1550
tggcttcccc ggaagacctc actgaccca gagtggcaga aaggctgatg 1600
cagcagctcc accgggaact ccacgcccac gcgcctcact tccaggtctc 1650
cttactgcgt gtcaggagag gctaacggac atcagctgca gccaggcatg 1700
tcccgtatgc caaaagaggg tgctgccctt agcctgggcc cccaccgaca 1750
gactgcagct gcgttactgt gctgagaggt acccagaagg ttcccatgaa 1800
gggcagcatg tccaagcccc taaccccaga tgtggcaaca ggaccctcgc 1850
tcacatccac cggagtgtat gtatggggag gggcttcacc tgttcccaga 1900
ggtgtccttg gactcacctt ggcacatgtt ctgtgtttca gtaaagagag 1950
acctgatcac ccatctgtgt gcttccatcc tgcattaaaa ttcactcagt 2000
gtggcccaaa aaaaa 2015

<210> 513

<211> 482

<212> PRT

<213> Homo Sapien

<400> 513

Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Phe Cys
1 5 10 15

P2730P1sequencelisting.txt

Trp	Glu	Val	Gly	Val	Ser	Gly	Ser	Ser	Ala	Gly	Pro	Ser	Thr	Arg	20	25	30
Arg	Ala	Asp	Thr	Ala	Met	Thr	Thr	Asp	Asp	Thr	Glu	Val	Pro	Ala	35	40	45
Met	Thr	Leu	Ala	Pro	Gly	His	Ala	Ala	Leu	Glu	Thr	Gln	Thr	Leu	50	55	60
Ser	Ala	Glu	Thr	Ser	Ser	Arg	Ala	Ser	Thr	Pro	Ala	Gly	Pro	Ile	65	70	75
Pro	Glu	Ala	Glu	Thr	Arg	Gly	Ala	Lys	Arg	Ile	Ser	Pro	Ala	Arg	80	85	90
Glu	Thr	Arg	Ser	Phe	Thr	Lys	Thr	Ser	Pro	Asn	Phe	Met	Val	Leu	95	100	105
Ile	Ala	Thr	Ser	Val	Glu	Thr	Ser	Ala	Ala	Ser	Gly	Ser	Pro	Glu	110	115	120
Gly	Ala	Gly	Met	Thr	Thr	Val	Gln	Thr	Ile	Thr	Gly	Ser	Asp	Pro	125	130	135
Glu	Glu	Ala	Ile	Phe	Asp	Thr	Leu	Cys	Thr	Asp	Asp	Ser	Ser	Glu	140	145	150
Glu	Ala	Lys	Thr	Leu	Thr	Met	Asp	Ile	Leu	Thr	Leu	Ala	His	Thr	155	160	165
Ser	Thr	Glu	Ala	Lys	Gly	Leu	Ser	Ser	Glu	Ser	Ser	Ala	Ser	Ser	170	175	180
Asp	Gly	Pro	His	Pro	Val	Ile	Thr	Pro	Ser	Arg	Ala	Ser	Glu	Ser	185	190	195
Ser	Ala	Ser	Ser	Asp	Gly	Pro	His	Pro	Val	Ile	Thr	Pro	Ser	Arg	200	205	210
Ala	Ser	Glu	Ser	Ser	Ala	Ser	Ser	Asp	Gly	Pro	His	Pro	Val	Ile	215	220	225
Thr	Pro	Ser	Trp	Ser	Pro	Gly	Ser	Asp	Val	Thr	Leu	Leu	Ala	Glu	230	235	240
Ala	Leu	Val	Thr	Val	Thr	Asn	Ile	Glu	Val	Ile	Asn	Cys	Ser	Ile	245	250	255
Thr	Glu	Ile	Glu	Thr	Thr	Thr	Ser	Ser	Ile	Pro	Gly	Ala	Ser	Asp	260	265	270
Ile	Asp	Leu	Ile	Pro	Thr	Glu	Gly	Val	Lys	Ala	Ser	Ser	Thr	Ser	275	280	285
Asp	Pro	Pro	Ala	Leu	Pro	Asp	Ser	Thr	Glu	Ala	Lys	Pro	His	Ile	290	295	300
Thr	Glu	Val	Thr	Ala	Ser	Ala	Glu	Thr	Leu	Ser	Thr	Ala	Gly	Thr	305	310	315
Thr	Glu	Ser	Ala	Ala	Pro	His	Ala	Thr	Val	Gly	Thr	Pro	Leu	Pro	320	325	330
Thr	Asn	Ser	Ala	Thr	Glu	Arg	Glu	Val	Thr	Ala	Pro	Gly	Ala	Thr	335	340	345
Thr	Leu	Ser	Gly	Ala	Leu	Val	Thr	Val	Ser	Arg	Asn	Pro	Leu	Glu	350	355	360

P2730P1sequencelisting.txt

Glu Thr Ser Ala	Leu Ser Val	Glu Thr	Pro Ser Tyr Val	Lys Val
	365		370	375
Ser Gly Ala Ala	Pro Val Ser Ile	Glu Ala Gly Ser	Ala Val	Gly
	380		385	390
Lys Thr Thr Ser	Phe Ala Gly Ser	Ser Ala Ser Ser	Tyr Ser	Pro
	395		400	405
Ser Glu Ala Ala	Leu Lys Asn Phe	Thr Pro Ser Glu	Thr Pro	Thr
	410		415	420
Met Asp Ile Ala	Thr Lys Gly Pro	Phe Pro Thr Ser	Arg Asp	Pro
	425		430	435
Leu Pro Ser Val	Pro Pro Thr Thr	Thr Asn Ser Ser	Arg Gly	Thr
	440		445	450
Asn Ser Thr Leu	Ala Lys Ile Thr	Thr Ser Ala Lys	Thr Thr	Met
	455		460	465
Lys Pro Gln Gln	Pro Arg Pro Arg	Leu Pro Gly Arg	Gly Arg	Pro
	470		475	480

Gln Thr

<210> 514
 <211> 2284
 <212> DNA
 <213> Homo Sapien

<400> 514
 gcggagcatc cgctgcggtc ctcgccgaga ccccgcgcg gattcgccgg 50
 tccttcccgc gggcgcgaca gagctgtcct cgcacctgga tggcagcagg 100
 ggcgcccggg tcctctcgac gccagagaga aatctcatca tctgtgcagc 150
 cttcttaaag caaactaaga ccagagggag gattatcctt gacctttgaa 200
 gacaaaaact aaactgaaat ttaaaatgtt cttcggggga gaaggagct 250
 tgacttacac tttggtaata atttgcttcc tgacactaag gctgtctgct 300
 agtcagaatt gcctcaaaaa gagtctagaa gatgttgtca ttgacatcca 350
 gtcattctctt tctaaggga tcagaggcaa tgagcccgta tatacttcaa 400
 ctcaagaaga ctgcattaat tcttgctgtt caacaaaaaa catatcaggg 450
 gacaaagcat gtaacttgat gatcttcgac actcgaaaaa cagctagaca 500
 acccaactgc tacctatctt tctgtcccaa cgaggaagcc tgtccattga 550
 aaccagcaaa aggacttatg agttacagga taattacaga ttttccatct 600
 ttgaccagaa atttgccaa ccaagagtta cccaggaag attctctctt 650
 acatggccaa ttttcacaag cagtcactcc cctagcccat catcacacag 700
 attattcaaa gcccaccgat atctcatgga gagacacact ttctcagaag 750
 tttggatcct cagatcacct ggagaaacta ttaagatgg atgaagcaag 800
 tgcccagctc cttgcttata aggaaaaagg ccattctcag agttcacaat 850

P2730P1sequencelisting.txt

```

tttcctctga tcaagaaata gctcatctgc tgcctgaaaa tgtgagtgcg 900
ctcccagcta cggtggcagt tgcttctcca cataccacct cggctactcc 950
aaagcccgcc acccttctac ccaccaatgc ttcagtgaca ctttctggga 1000
cttcccagcc acagctggcc accacagctc cacctgtaac cactgtcact 1050
tctcagcctc ccacgacctt catttctaca gtttttacac gggctgcggc 1100
tacactccaa gcaatggcta caacagcagt tctgactacc acctttcagg 1150
cacctacgga ctcgaaaggc agcttagaaa ccataccgtt tacagaaatc 1200
tccaacttaa ctttgaacac agggaaatgt tataacccta ctgcactttc 1250
tatgtcaaat gtggagtctt ccactatgaa taaaactgct tcctgggaag 1300
gtagggagggc cagtccaggc agttcctccc agggcagtgt tccagaaaat 1350
cagtacggcc ttccatttga aaaatggctt cttatcgggt ccctgctctt 1400
tggtgtcctg ttcttggtga taggcctcgt cctcctgggt agaatccttt 1450
cggaatcact ccgcaggaaa cgttactcaa gactggatta ttgatcaat 1500
gggatctatg tggacatcta aggatggaac tcggtgtctc ttaattcatt 1550
tagtaaccag aagcccaaat gcaatgagtt tctgctgact tgctagtctt 1600
agcaggaggt tgtattttga agacaggaaa atgccccctt ctgctttcct 1650
tttttttttt ggagacagag tcttgctctg ttgcccaggc tggagtgcag 1700
tagcacgatc tcggctctca ccgcaacctc cgtctcctgg gttcaagcga 1750
ttctcctgcc tcagcctcct aagtatctgg gattacaggc atgtgccacc 1800
acacctgggt gattttttgta ttttagtag agacgggggt tcaccatggt 1850
ggtcaggctg gtctcaaact cctgacctag tgatccacc tcctcggcct 1900
cccaaagtgc tgggattaca ggcagtagcc accacagctg gcccccttct 1950
gttttatggt tggtttttga gaaggaatga agtggaacc aaattaggta 2000
attttgggta atctgtctct aaaatattag ctaaaaacaa agctctatgt 2050
aaagtaataa agtataattg ccatataaat ttcaaaattc aactggcttt 2100
tatgcaaaga aacagggttag gacatctagg ttccaattca ttcacattct 2150
tggttccaga taaaatcaac tgtttatatc aatttctaata ggatttgctt 2200
ttctttttat atggattcct ttaaaactta ttccagatgt agttccttcc 2250
aattaaatat ttgaataaat cttttgttac tcaa 2284

```

<210> 515

<211> 431

<212> PRT

<213> Homo Sapien

<400> 515

Met Phe Phe Gly Gly Glu Gly Ser Leu Thr Tyr Thr Leu Val Ile
1 5 10 15

Ile Cys Phe Leu Thr Leu Arg Leu Ser Ala Ser Gln Asn Cys Leu
Page 377

P2730P1sequencelisting.txt

20	25	30
Lys Lys Ser Leu Glu 35	Asp Val Val Ile Asp 40	Ile Gln Ser Ser Leu 45
Ser Lys Gly Ile Arg 50	Gly Asn Glu Pro Val 55	Tyr Thr Ser Thr Gln 60
Glu Asp Cys Ile Asn 65	Ser Cys Cys Ser Thr 70	Lys Asn Ile Ser Gly 75
Asp Lys Ala Cys Asn 80	Leu Met Ile Phe Asp 85	Thr Arg Lys Thr Ala 90
Arg Gln Pro Asn Cys 95	Tyr Leu Phe Phe Cys 100	Pro Asn Glu Glu Ala 105
Cys Pro Leu Lys Pro 110	Ala Lys Gly Leu Met 115	Ser Tyr Arg Ile Ile 120
Thr Asp Phe Pro Ser 125	Leu Thr Arg Asn Leu 130	Pro Ser Gln Glu Leu 135
Pro Gln Glu Asp Ser 140	Leu Leu His Gly Gln 145	Phe Ser Gln Ala Val 150
Thr Pro Leu Ala His 155	His His Thr Asp Tyr 160	Ser Lys Pro Thr Asp 165
Ile Ser Trp Arg Asp 170	Thr Leu Ser Gln Lys 175	Phe Gly Ser Ser Asp 180
His Leu Glu Lys Leu 185	Phe Lys Met Asp Glu 190	Ala Ser Ala Gln Leu 195
Leu Ala Tyr Lys Glu 200	Lys Gly His Ser Gln 205	Ser Ser Gln Phe Ser 210
Ser Asp Gln Glu Ile 215	Ala His Leu Leu Pro 220	Glu Asn Val Ser Ala 225
Leu Pro Ala Thr Val 230	Ala Val Ala Ser Pro 235	His Thr Thr Ser Ala 240
Thr Pro Lys Pro Ala 245	Thr Leu Leu Pro Thr 250	Asn Ala Ser Val Thr 255
Pro Ser Gly Thr Ser 260	Gln Pro Gln Leu Ala 265	Thr Thr Ala Pro Pro 270
Val Thr Thr Val Thr 275	Ser Gln Pro Pro Thr 280	Thr Leu Ile Ser Thr 285
Val Phe Thr Arg Ala 290	Ala Ala Thr Leu Gln 295	Ala Met Ala Thr Thr 300
Ala Val Leu Thr Thr 305	Thr Phe Gln Ala Pro 310	Thr Asp Ser Lys Gly 315
Ser Leu Glu Thr Ile 320	Pro Phe Thr Glu Ile 325	Ser Asn Leu Thr Leu 330
Asn Thr Gly Asn Val 335	Tyr Asn Pro Thr Ala 340	Leu Ser Met Ser Asn 345
Val Glu Ser Ser Thr 350	Met Asn Lys Thr Ala 355	Ser Trp Glu Gly Arg 360

P2730P1sequencelisting.txt

Glu Ala Ser Pro Gly Ser Ser Ser Gln Gly Ser Val Pro Glu Asn
 365 370 375
 Gln Tyr Gly Leu Pro Phe Glu Lys Trp Leu Leu Ile Gly Ser Leu
 380 385 390
 Leu Phe Gly Val Leu Phe Leu Val Ile Gly Leu Val Leu Leu Gly
 395 400 405
 Arg Ile Leu Ser Glu Ser Leu Arg Arg Lys Arg Tyr Ser Arg Leu
 410 415 420
 Asp Tyr Leu Ile Asn Gly Ile Tyr Val Asp Ile
 425 430

<210> 516
 <211> 2749
 <212> DNA
 <213> Homo Sapien

<220>
 <221> unsure
 <222> 1869, 1887
 <223> unknown base

<400> 516
 ctcccacggt gtccagcgcc cagaatgcgg cttctggtcc tgctatgggg 50
 ttgcctgctg ctcccaggtt atgaagccct ggagggccca gaggaaatca 100
 gcggggttcga aggggacact gtgtccctgc agtgcaccta cagggaagag 150
 ctgagggacc accggaagta ctggtgcagg aagggtggga tcctcttctc 200
 tcgctgctct ggcaccatct atgcagaaga agaaggccag gagacaatga 250
 agggcagggt gtccatccgt gacagccgcc aggagctctc gctcattgtg 300
 accctgtgga acctcaccct gcaagacgct ggggagtact ggtgtgggggt 350
 cgaaaaacgg ggccccgatg agtctttact gatctctctg ttcgtctttc 400
 caggaccctg ctgtcctccc tccccttctc ccaccttcca gcctctgggt 450
 acaacacgcc tgcagcccaa ggcaaaagct cagcaaacc agccccagg 500
 attgacttct cctgggctct acccggcagc caccacagcc aagcagggga 550
 agacaggggc tgaggcccct ccattgccag ggacttcca gtacgggcac 600
 gaaaggactt ctcagtacac aggaacctt cctcaccag cgacctctcc 650
 tcctgcaggg agtccccgcc ccccatgca gctggactcc acctcagcag 700
 aggacaccag tccagctctc agcagtggca gctctaagcc cagggtgtcc 750
 atcccgatgg tccgcatact ggccccagtc ctggtgctgc tgagccttct 800
 gtcagccgca ggctgatcg ctttctgcag ccacctgctc ctgtggagaa 850
 aggaagctca acaggccacg gagacacaga ggaacgagaa gttctggctc 900
 tcacgcttga ctgcggagga aaaggaagcc ccttcccagg cccctgaggg 950
 ggacgtgatc tcgatgcctc ccctccacac atctgaggag gagctgggct 1000
 tctcgaagtt tgtctcagcg tagggcagga ggccctcctg gccaggccag 1050

P2730P1sequence1isting.txt

cagtgaagca gtatggctgg ctggatcagc accgattccc gaaagctttc 1100
 cacctcagcc tcagagtcca gctgcccgga ctccagggct ctccccaccc 1150
 tccccaggct ctctctttgc atgttccagc ctgacctaga agcgtttgct 1200
 agccctggag cccagagcgg tggccttgct cttccggctg gagactggga 1250
 catccctgat aggttcacat ccctgggcag agtaccaggc tgctgaccct 1300
 cagcagggcc agacaaggct cagtggatct ggtctgagtt tcaatctgcc 1350
 aggaactcct gggcctcatg cccagtgtcg gaccctgcct tcctcccact 1400
 ccagacccca cttgtcttc cctccctggc gtcctcagac ttagtcccac 1450
 ggtctcctgc atcagctggt gatgaagagg agcatgctgg ggtgagactg 1500
 ggattctggc ttctctttga accacctgca tccagccctt caggaagcct 1550
 gtgaaaaacg tgattcctgg cccaccaag acccaccaa accatctctg 1600
 ggcttggtgc aggactctga attctaaca tgcccagtga ctgtcgact 1650
 tgagtttgag ggccagtggg cctgatgaac gtcacaccc cttcagctta 1700
 gagtctgcat ttgggctgtg acgtctccac ctgcccgaat agatctgctc 1750
 tgtctgcgac accagatcca cgtggggact cccctgaggc ctgctaagtc 1800
 caggccttgg tcaggtcagg tgcacattgc aggataagcc caggaccggc 1850
 acagaagtgg ttgcctttnc catttgccct ccctggncca tgccttcttg 1900
 cctttggaaa aaatgatgaa gaaaaccttg gtccttcct tgtctggaaa 1950
 gggttacttg cctatgggtt ctggtggcta gagagaaaag tagaaaacca 2000
 gagtgcacgt aggtgtctaa cacagaggag agtaggaaca gggcggtac 2050
 ctgaaggtga ctccgagtcc agccccctgg agaaggggtc gggggtggtg 2100
 gtaaagtagc acaactacta ttttttttct ttttccatta ttattgtttt 2150
 ttaagacaga atctcgtgct gctgcccagg ctggagtga gtggcacgat 2200
 ctgcaaactc cgcctcctgg gttcaagtga ttcttctgcc tcagcctccc 2250
 gagtagctgg gattacaggc acgcaccacc acacctggct aatttttgta 2300
 cttttagtag agatgggggtt tcaccatggt ggccaggctg gtcttgaact 2350
 cctgacctca aatgagcctc ctgcttcagt ctcccaaatt gccgggatta 2400
 caggcatgag ccaactgtgtc tggccctatt tcctttaaaa agtgaaatta 2450
 agagttgttc agtatgcaa acttggaag atggaggaga aaaagaaaag 2500
 gaagaaaaaa atgtcaccca tagtctcacc agagactatc attatttcgt 2550
 ttgtttgtac ttcttccac tcttttcttc ttcacataat ttgccggtgt 2600
 tctttttaca gagcaattat cttgtatata caactttgta tcctgccttt 2650
 tccaccttat cgttccatca ctttattcca gcacttctct gtgttttaca 2700
 gaccttttta taaataaaat gttcatcagc tgcataaaaa aaaaaaaaaa 2749

P2730P1sequencelisting.txt

<210> 517
 <211> 332
 <212> PRT
 <213> Homo Sapien

```

<400> 517
Met Arg Leu Leu Val 5 Leu Leu Trp Gly Cys 10 Leu Leu Leu Pro Gly 15
1
Tyr Glu Ala Leu Glu 20 Gly Pro Glu Glu Ile 25 Ser Gly Phe Glu Gly 30
20
Asp Thr Val Ser Leu 35 Gln Cys Thr Tyr Arg 40 Glu Glu Leu Arg Asp 45
35
His Arg Lys Tyr Trp 50 Cys Arg Lys Gly Gly 55 Ile Leu Phe Ser Arg 60
50
Cys Ser Gly Thr Ile 65 Tyr Ala Glu Glu Glu 70 Gly Gln Glu Thr Met 75
65
Lys Gly Arg Val Ser 80 Ile Arg Asp Ser Arg 85 Gln Glu Leu Ser Leu 90
80
Ile Val Thr Leu Trp 95 Asn Leu Thr Leu Gln 100 Asp Ala Gly Glu Tyr 105
95
Trp Cys Gly Val Glu 110 Lys Arg Gly Pro Asp 115 Glu Ser Leu Leu Ile 120
110
Ser Leu Phe Val Phe 125 Pro Gly Pro Cys Cys 130 Pro Pro Ser Pro Ser 135
125
Pro Thr Phe Gln Pro 140 Leu Ala Thr Thr Arg 145 Leu Gln Pro Lys Ala 150
140
Lys Ala Gln Gln Thr 155 Gln Pro Pro Gly Leu 160 Thr Ser Pro Gly Leu 165
155
Tyr Pro Ala Ala Thr 170 Thr Ala Lys Gln Gly 175 Lys Thr Gly Ala Glu 180
170
Ala Pro Pro Leu Pro 185 Gly Thr Ser Gln Tyr 190 Gly His Glu Arg Thr 195
185
Ser Gln Tyr Thr Gly 200 Thr Ser Pro His Pro 205 Ala Thr Ser Pro Pro 210
200
Ala Gly Ser Ser Arg 215 Pro Pro Met Gln Leu 220 Asp Ser Thr Ser Ala 225
215
Glu Asp Thr Ser Pro 230 Ala Leu Ser Ser Gly 235 Ser Ser Lys Pro Arg 240
230
Val Ser Ile Pro Met 245 Val Arg Ile Leu Ala 250 Pro Val Leu Val Leu 255
245
Leu Ser Leu Leu Ser 260 Ala Ala Gly Leu Ile 265 Ala Phe Cys Ser His 270
260
Leu Leu Leu Trp Arg 275 Lys Glu Ala Gln Gln 280 Ala Thr Glu Thr Gln 285
275
Arg Asn Glu Lys Phe 290 Trp Leu Ser Arg Leu 295 Thr Ala Glu Glu Lys 300
290
Glu Ala Pro Ser Gln 305 Ala Pro Glu Gly Asp 310 Val Ile Ser Met Pro 315
305
    
```

P2730P1sequencelisting.txt

Pro Leu His Thr Ser Glu Glu Glu Leu Gly Phe Ser Lys Phe Val
 320 325 330

Ser Ala

<210> 518

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 518

ccctgcagtg cacctacagg gaag 24

<210> 519

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 519

ctgtcttccc ctgcttggct gtgg 24

<210> 520

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 520

ggtgcaggaa ggggtgggatc ctcttctctc gctgctctgg ccacatc 47

<210> 521

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 521

ccagtgcaca gcaggcaacg aagc 24

<210> 522

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 522

actaggctgt atgcctgggt gggc 24

<210> 523

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 523

gtatgtacaa agcatcggca tggttgcagg agcagtgaca ggc 43

<210> 524

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 524

aatctcagca ccagccactc agagca 26

<210> 525

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 525

gttaaagagg gtgcccttcc agcga 25

<210> 526

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 526

tatcccaatg cctccccact gctc 24

<210> 527

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 527

gatgaacttg gcgaaggggc ggca 24

<210> 528

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 528

agggaggatt atccttgacc tttgaagacc 30

<210> 529

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

P2730P1sequencelisting.txt

<400> 529
gaagcaagtg cccagctc 18
<210> 530
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic oligonucleotide probe
<400> 530
cgggtccctg ctctttgg 18
<210> 531
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic oligonucleotide probe
<400> 531
caccgtagct gggagcgac tcac 24
<210> 532
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetic oligonucleotide probe
<400> 532
agtgtgaagtc aagctccc 18